



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

**PURCHASE ORDER
PO038285**

Supplier:	ACI001-VC Acier Ouellette Inc. 935 Boul. Du Havre Valleyfield QC J6S 5L1 Canada Phone: 800 667 4248 Fax: 450 377 5696	PO No:	PO038285
		PO Date:	11/7/17
		Due Date:	11/13/17
		Purchase Order Revision:	
		Revision Date:	
		Ship-To Contact:	Baker, Diane Phone: dbaker@dartaero.com
Ship To:	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	Via:	Ground
		Pymt Terms:	Net 30
		Freight Terms:	
		Special Comments:	QUOTATION NO. SOU0068632, SOU0069446, SOU0069452

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M17-4-R0.750		17-4 Round Bar .750 17-4 PH / S17400 / TYPE 630 SS ROUND BAR PER AMS 5643/ ASTM A564 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI receive ft	Received	11/13/17	24 ft	24 ft	0 ft	\$8.275/ft	\$0.00
2	M2024T3S.032		2024-T3 .032 Sheet MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf	Received	11/13/17	48 sf	48 sf	0 sf	\$4.4791666/sf	\$0.00
3	M6061T6B1.000X02.000		6061-T6 Bar 1.00 X 2.00 MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Received	11/13/17	20 ft	20 ft	0 ft	\$6.263/ft	\$0.00
4	M6061T6B1.500X02.000		6061-T6 Bar 1.50 X 2.00 MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS	Received	11/13/17	12 ft	12 ft	0 ft	\$10.440833/ft	\$0.00



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			4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft							
5	M6061T6B1.500X04.000		6061T6 Bar 1.500 X 4.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Received	11/13/17	12 ft	12 ft	0 ft	\$22.271666/ft	\$0.00
6	M6061T6B2.000X01.250		6061-T6 Bar 2.00 X 1.25 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Received	11/13/17	24 ft	24 ft	0 ft	\$9.8770833/ft	\$0.00
7	M6061T6B2.000X03.500		6061-T6 Bar 2.00 X 3.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Received	11/13/17	6 ft	6 ft	0 ft	\$40.70/ft	\$0.00
8	M6061T6B1.500X3.000		6061T6 Bar 1.500 X 3.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Received	11/13/17	6 ft	6 ft	0 ft	\$15.74/ft	\$0.00
9	M6061T6B0.750X02.000		6061-T6 Bar .750 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER	Received	11/13/17	20 ft	20 ft	0 ft	\$5.3805/ft	\$0.00



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Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
			QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft							
10	M6061T6B0.750X01.000		6061-T6 Bar .750 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Received	11/13/17	20 ft	20 ft	0 ft	\$2.6075/ft	\$0.00
11	M6061T6R0.625		6061-T6 Round Bar .625" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Received	11/13/17	20 ft	20 ft	0 ft	\$1.0685/ft	\$0.00
12	M6061T6R1.000		Round Bar 1.00" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Received	11/13/17	40 ft	40 ft	0 ft	\$2.46/ft	\$0.00
13	M6061T6R1.250		6061-T6 Round Bar 1.250 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Received	11/13/17	40 ft	40 ft	0 ft	\$3.83225/ft	\$0.00

PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO038285	AC1001-VC	3	1	Net 30	M6061T6B1.000X02,000	6061-T6 Bar 1.00 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				20	11/13/2017	20		S008416	Stock	11/9/2017	\$ 6.26 / ft	0		\$125.26	Acier Ouellette Inc.
		4			M6061T6B1.500X02,000	6061-T6 Bar 1.50 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		12		S008417	Stock	11/9/2017	\$ 10.44 / ft	0		\$125.29	Acier Ouellette Inc.
		5			M6061T6B1.500X04,000	6061-T6 Bar 1.500 X 4.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						12		S008418	Stock	11/9/2017	\$ 22.27 / ft	0		\$267.28	Acier Ouellette Inc.
		6			M6061T6B2.000X01,250	6061-T6 Bar 2.00 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				24		24		S008419	Stock	11/9/2017	\$ 9.88 / ft	0		\$237.05	Acier Ouellette Inc.
		8			M6061T6B2.000X01,250 NO HTS	6061-T6 Bar 2.00 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				6		6		S008420	Stock	11/9/2017	\$ 15.74 / ft	0		\$94.44	Acier Ouellette Inc.
		9			M6061T6B0.750X02,000	6061-T6 Bar .750 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				20		20		S008421	Stock	11/9/2017	\$ 5.38 / ft	0		\$107.61	Acier Ouellette Inc.
		10			M6061T6B0.750X01,000	6061-T6 Bar .750 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						20		S008422	Stock	11/9/2017	\$ 2.61 / ft	0		\$52.15	Acier Ouellette Inc.
		11			M6061T6R0.525	6061-T6 Round Bar .625" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft						20		S008423	Stock	11/9/2017	\$ 1.07 / ft	0		\$21.37	Acier Ouellette Inc.
		12			M6061T6R1.000 007	Round Bar 1.00" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR				40		40		S008424	Stock	11/9/2017	\$ 2.46 / ft	0		\$98.40	Acier Ouellette Inc.

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						AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft															
		13			M6061-T6P1250	6061-T6 Round Bar 1.250 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft					40		S008425	Stock	11/9/2017	\$ 3.83 / ft	0	\$153.29	Acier Ouellette Inc.		
		18			M6061-T6P1080	6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				32	32		S008426	Stock	11/9/2017	\$ 8.17 / sf	0	\$261.41	Acier Ouellette Inc.		
		19			M6061-T6S188	6061-T6 .188 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				32			S008427	Stock	11/9/2017	\$ 9.83 / sf	0	\$314.42	Acier Ouellette Inc.		
		22			M1018B-125x0.750	1010-1025 Steel Bar .125 X .750 : MATERIAL: AISI A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft <i>no drawing</i>				12	12		S008428	Stock	11/9/2017	\$ 0.96 / ft	0	\$11.67	Acier Ouellette Inc.		
		23			M140HRO.750	4140 Round Bar .750 : AISI 4140H ROUND BAR PER AISI41400R ASTM A304-02/A-434- BC/A193-03-GRADE B7-A29-03/A322-91 OR UNS#G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft				6	6		S008429	Stock	11/9/2017	\$ 3.49 / ft	0	\$20.95	Acier Ouellette Inc.		
		24			M6061-T6B0.500X02.000	6061-T6 Bar .500 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft <i>no heat</i>				20	20		S008430	Stock	11/9/2017	\$ 2.95 / ft	0	\$58.98	Acier Ouellette Inc.		
		25			M6061-T6R0.750	6061-T6 Round Bar .750" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				20			S008431	Stock	11/9/2017	\$ 1.34 / ft	0	\$26.77	Acier Ouellette Inc.		
		26			M1018B1.000X06.000	1010-1025 Steel Bar 1.000 X 6.000 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft				6	6		S008432	Stock	11/9/2017	\$ 30.42 / ft	0	\$182.52	Acier Ouellette Inc.		
						Total:				342		342									\$1,700.65



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Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

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E-MAILER
NOV 07 2017

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Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments: QUOTATION NO.
SOU0068632, SOU0069446, SOU0069452

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1	M17-4-R0.750 ✓	-	17-4 Round Bar .750 : 17-4 PH / S17400 / TYPE 630 SS ROUND BAR PER AMS 5643/ ASTM A564 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI receive ft		Firmed	11/13/17	✓ 24 ft	0 ft	24 ft	\$8.275/ft	\$198.60
2	M2024T3S.032 ✓	-	2024-T3 .032 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf		Firmed	11/13/17	48 sf	0 sf	48 sf	\$4.4791666/sf	\$215.00
3	M6061T6B11000X02.000 ✓	-	6061-T6 Bar 1.00 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	✓ 20 ft	0 ft	20 ft	\$6.263/ft	\$125.26
4	M6061T6B11500X02.000 ✓	-	6061-T6 Bar 1.50 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR		Firmed	11/13/17	✓ 12 ft	0 ft	12 ft	\$10.440833/ft	\$125.29



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			QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft								
5	M6061T6B1.500X04.000		6061T6 Bar 1.500 X 4.00 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	12 ft	0 ft	12 ft	\$22.271666/ft	\$267.26
			DAS 9 9-89						12 ft		
6	M6061T6B2.000X01.250		6061-T6 Bar 2.00 X 1.25 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	24 ft	0 ft	24 ft	\$9.8770833/ft	\$237.05
			DAS 9 9-89						24 ft		
7	M6061T6B2.000X03.500		6061-T6 Bar 2.00 X 3.50 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	6 ft	0 ft	6 ft	\$40.70/ft	\$244.20
			430								
8	M6061T6B1.500X3.000		6061T6 Bar 1.500 X 3.000 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	6 ft	0 ft	6 ft	\$15.74/ft	\$94.44
			DAS 9 9-89						6 ft		
9	M6061T6B0.750X02.000		6061-T6 Bar .750 X 2.00 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-		Firmed	11/13/17	20 ft	0 ft	20 ft	\$5.3805/ft	\$107.61
			DAS 9 9-89						20 ft		
										SOA-119	



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			A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft								
10	M6061-T6B0.750X01.000	DAS 9 9-89	6061-T6 Bar .750 X 1.00 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	20 ft	0 ft	20 ft	\$2.6075/ft	\$52.15
11	M6061-T6R0.625	DAS 9 9-89	6061-T6 Round Bar .625" MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	20 ft	0 ft	20 ft	\$1.0685/ft	\$21.37
12	M6061-T6R1.000		Round Bar 1.00" MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	40 ft	0 ft	40 ft	\$2.46/ft	\$98.40
13	M6061-T6R1.250	DAS 9 9-89	6061-T6 Round Bar 1.250 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	40 ft	0 ft	40 ft	\$3.83225/ft	\$153.29



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Items											
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
14	M6061T6R3.250	-	6061-T6 Round Bar 3.250" MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft		Firmed	11/13/17	36 ft	0 ft	36 ft	\$30.773611/ft	\$1,107.85
15	M6061T6S.020	-	6061-T6 Sheet .020 MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	48 sf	0 sf	48 sf	\$1.736875/sf	\$83.37
16	M6061T6S.040	-	6061-T6 .040 Sheet MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	144 sf	0 sf	144 sf	\$2.8484722/sf	\$410.18
17	M6061T6S.063	-	6061-T6 .063 Sheet MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	64 sf	0 sf	64 sf	\$2.7565625/sf	\$176.42
18	M6061T6S.080	-	6061-T6 .080 Sheet MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	32 sf	0 sf	32 sf	\$8.1690625/sf	\$261.41
19	M6061T6S.188	-	6061-T6 .188 Sheet MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	32 sf	0 sf	32 sf	\$9.825625/sf	\$314.42
20	M304B1.000X1.000	-	304 Bar 1.00 X 1.00 MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240		Firmed	11/13/17	24 ft	0 ft	24 ft	\$13.4625/ft	\$323.10



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038285

Line Item	Part	Rev	Items								
			Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
			NOTE: AISI 303 NOT ACCEPTABLE receive ft								
21	M303R0.500		303 Round Bar 0.500" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft		Firmed	11/13/17	48 ft	0 ft	48 ft	\$1.9739583/ft	\$94.75
22	M1018B.125x0.750		1010-1025 Steel Bar .125 X .750 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft		Firmed	11/13/17	12 ft	0 ft	12 ft	\$0.9566666/ft	\$11.48
23	M4140HR0.750	✓	4140 Round Bar .750 : AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/A-434-BC/A193-03-GRADE B7/A29-03/A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft		Firmed	11/13/17	6 ft	0 ft	6 ft	\$3.492/ft	\$20.95
24	M6061T6B0.500X02.000		6061-T6 Bar .500 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	20 ft	0 ft	20 ft	\$2.949/ft	\$58.98
25	M6061T6R0.750	✓	6061-T6 Round Bar .750" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221-OR-ASTM B221 receive ft		Firmed	11/13/17	20 ft	0 ft	20 ft	\$1.3385/ft	\$26.77



Dart Hawkesbury
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Hawkesbury, ON
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Canada

Tel (613) 632-5200

PURCHASE ORDER PO038285

Items											
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
26	M1018B1.000X06.000	-	1010-1025 Steel Bar 1.000 X 6.000 MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft		Firmed	11/13/17	6 ft	0 ft	6 ft	\$30.42/ft	\$182.52

Grand Total: \$5,012.12

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/7/17 3:05 PM DART.LAVOIE.CHANTAL

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0068632

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CL0001056

Date 2017/11/02

Revision N° 0

Prices valid until 2017/11/09

Your Order N°

Processed by BERNARD

Salesman JOSIANNE

Carrier OUELLE SDV

Credit Terms Net 30 Days

Page 3

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND ALU 1 6061-T6 RANDOM RAL-1-V 5141 ✓ 2 X 20' STOCK	37.00	40.00	PI_\$CLB	40.00	PI		2.00	49.200	98.40
ROUND ALU 1 1/4 6061-T6 RANDOM RAL-114-V 5121 ✓ 2 X 20' STOCK	57.64	40.00	PI_\$CLB	40.00	PI		2.00	76.645	153.29
ROUND ALU 3 1/4 6061-T6 RANDOM RAL-314-V 5152 ✓ 3 X 12' 2-3 DAYS	350.64	36.00	PI_\$CLB	36.00	PI		3.00	369.283	1 107.85
ALU SHEET .020 (24G) 6061-T6 (4 X 12) FEAL-0204126061 3048 ✓ 1 X 4' X 12' 2-3 DAYS	13.54	48.00	PI2_\$CLB	1.00	UN		1.00	83.370	83.37
ALU SHEET .040 (18G) 6061-T6 RANDOM FEAL-0406061-V 3131 ✓ 3 X 4' X 12' 2-3 DAYS	81.07	144.00	PI2_\$CLB	144.00	PI2		3.00	136.726	410.18
ALU SHEET .064 (14G) 6061-T6 (4 X 8) FEAL-064486061 3175 ✓ 2 X 4' X 8' 2-3 DAYS	57.66	64.00	PI2_\$CLB	2.00	UN		2.00	88.210	176.42
ALU SHEET .081 (12G) 6061-T6 (4 X 8) FEAL-081486061 3199 ✓ 1 X 4' X 8' STOCK	36.51	32.00	PI2_\$CLB	1.00	UN		1.00	261.410	261.41
ALU SHEET 3/16 6061-T6 (4 X 8) FEAL-316486061 4271 ✓ 1 X 4' X 8' STOCK	85.92	32.00	PI2_\$CLB	1.00	UN		1.00	314.420	314.42
SQUARE SS 1 SS304 RANDOM CSS-1-V 2085 ✓ 2 X 12' R/L 2-3 DAYS	81.60	24.00	PI_\$CLB	24.00	PI		2.00	161.550	323.10

préavis en fonction de l'évolution des prix de l'acier sur le marché.
Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0068632

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CLI0001056

Date 2017/11/02

Revision N° 0

Prices valid until 2017/11/09

Your Order N°

Processed by BERNARD

Salesman JOSIANNE

Carrier OUELLE SDV

Credit Terms Net 30 Days

Page 2

Product N° and description	Weight	Qty U/M	Qty U/M	Price	Pcs Nb	Price	Amount
FLAT ALU 1 1/4 X 2 6061-T6 RANDOM FAL-1142-V 2456 2 X 12' STOCK	70.56	24.00 PI_\$CLB	24.00 PI		2.00	118.525	237.05
ALU PLATE 2 6061-T651 RANDOM PAL-26061-V 7470 1 X 3 1/2" X 72" 2-3 DAYS	57.28	2.00 PI2_\$CLB	2.00 PI2		1.00	244.200	244.20
COUPE A LA SCIE SCIE 1		1.00 UN	1.00				
AL. PLAT 2 3/4" X 6 N	0.00	1.00 UN	1.00 UN		1.00	497.000	497.00
FLAT ALU 1 1/2 X 3 6061-T6 RANDOM FAL-1123-V 2445 1 X 6' STOCK	31.75	6.00 PI_\$CLB	6.00 PI		1.00	94.440	94.44
COUPE A LA SCIE SCIE 1		1.00 UN	1.00				
FLAT ALU 3/4 X 2 6061-T6 RANDOM FAL-342-V 2592 1 X 20' STOCK	36.36	20.00 PI_\$CLB	20.00 PI		1.00	107.610	107.61
FLAT ALU 3/4 X 1 6061-T6 RANDOM FAL-341-V 2588 1 X 20' 2-3 DAYS	17.62	20.00 PI_\$CLB	20.00 PI		1.00	52.150	52.15
FLAT ALU 1/8 X 3/4 6063-T5 RANDOM FAL-1834-V 2552 1 X 20' STOCK	2.26	20.00 PI_\$CLB	20.00 PI		1.00	6.580	6.58
ROUND ALU 5/8 6061-T6 RANDOM RAL-58-V 5169	7.22	20.00 PI_\$CLB	20.00 PI		1.00	21.370	21.37

préavis en fonction de l'évolution des prix de l'acier sur le marché.
Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0068632

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CLI0001056**Date** 2017/11/02**Revision N°** 0**Prices valid until** 2017/11/09**Your Order N°****Processed by** BERNARD**Salesman** JOSIANNE**Carrier** OUELLE SDV**Credit Terms** Net 30 Days**Page** 1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
PLAT 17-4 PH 1 1/2 X 2 1/4 N 1 X 12' 5-7 DAYS	0.00	1.00	UN	1.00	UN		1.00	1 930.000	1 930.00
ROUND SS 3/4 17-4PH NS RSS-34174 9268 24 ft 1 X 12' STOCK	18.02	12.00	PI_\$CLB	12.00	PI		1.00	99.300	99.30
ALU SHEET .032 (20G) 2024-T3 (4 X 12) BARE FEAL-0324122024 3093 1 X 4' X 12' DELIVERY 2-3 DAYS	21.65	48.00	PI2_\$CLB	1.00	UN		1.00	215.600	215.60
PLAT SS303 1 1/2 X 3 3 1/2 N 1 X 12' 7-10 DAYS	0.00	1.00	UN	1.00	UN		1.00	3 840.000	3 840.00
ALU PLATE 1/2 6061-T651 RANDOM PAL-126061-V 4229 1 X 23" X 14" 2-3 DAYS COUPE A LA SCIE SCIE 1	174.00	24.00	PI2_\$CLB	24.00	PI2		1.00	659.350	659.35
FLAT ALU 1 X 2 6061-T6 RANDOM FAL-12-V 2497 ✓	48.00	20.00	PI_\$CLB	20.00	PI		1.00	125.260	125.26
FLAT ALU 1 1/2 X 2 6061-T6 RANDOM FAL-1122-V 2440 ✓	42.34	12.00	PI_\$CLB	12.00	PI		1.00	125.290	125.29
FLAT ALU 1 1/2 X 4 6061-T6 RANDOM FAL-1124-V 2447 ✓	84.59	12.00	PI_\$CLB	12.00	PI		1.00	267.260	267.26

préavis en fonction de l'évolution des prix de l'acier sur le marché.
Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date :

Next Page...


ACIER OUELLETTE INC.

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation
SOU0068632
Billed to

DART AEROSPACE LTD
 1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CLI0001056

Date 2017/11/02

Revision N° 0

Prices valid until 2017/11/09

Your Order N°
Processed by BERNARD

Salesman JOSIANNE

Carrier OUELLE SDV

Credit Terms Net 30 Days

Page 4

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND SS 1/2 303 RANDOM RSS-12303-V 5727 4 X 12' 2-3 DAYS	32.02	48.00	PI_\$CLB	48.00	PI		4.00	23.687	94.75
FLAT CR 1/4 X 3/4 1018 RANDOM FCR-1434-V 2753 1 X 12' R/L STOCK	7.66	12.00	PI_\$CLB	12.00	PI		1.00	11.480	11.48
ROUND 4140 HEAT TREAT 3/4 RANDOM R4140-34H-V 4949 1 X 5' STOCK	7.51	5.00	PI_\$CLB	5.00	PI		1.00	17.460	17.46
COUPE A LA SCIE SCIE 1		1.00	UN	1.00					
PLAT 4140 ANN 1/2 X 1 5/8" 1 X 4' OFFER 4140 ANN 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	145.000	145.00
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE		\$							3.95

Total Weight (Lbs) 2 920.84

Important

This offer is based on availability and current pricing conditions that may be revised upon

modification de l'évolution des prix de l'acier sur le marché.

Cette offre est sujette aux conditions de la compagnie de crédit.

Approuved and Accepted by : _____

Sub-total 11 723.54

TVH-13 1524.06

Date : _____ **Total (\$CAD)** 13 247.60

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0069452

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CLI0001056**Date** 2017/11/07**Revision N°** 0**Prices valid until** 2017/11/14**Your Order N°****Processed by** BERNARD**Salesman** JOSIANNE**Carrier** OUELLE SDV**Credit Terms** Net 30 Days**Page** 1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FLAT ALU 1/2 X 2 6061-T6 RANDOM FAL-122-V 2481 <i>1 X 20'</i>	23.98	20.00	PI_\$CLB	20.00	PI		1.00	58.980	58.98
ROUND ALU 3/4 6061-T6 RANDOM RAL-34-V 5157 <i>1 X 20'</i>	10.46	20.00	PI_\$CLB	20.00	PI		1.00	26.770	26.77
SURCHARGE ENERGETIQUE FRAIS ENERGETIQUE <i>ALL IN STOCK</i>			\$						3.95

Total Weight (Lbs) 34.44**Important**

This offer is based on availability and current pricing conditions that may be revised upon

prévision de l'évolution des prix de l'acier sur le marché.

Cette offre est sujette aux conditions de crédit approuvées par la compagnie de crédit.

Approuved and Accepted by : _____

Sub-total 89.70

TVH-13 · · 11.66

Date : _____ **Total (\$CAD)** 101.36

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0069446

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CLI0001056**Date** 2017/11/07**Revision N°** 0**Prices valid until** 2017/11/14**Your Order N°****Processed by** BERNARD**Salesman** JOSIANNE**Carrier** OUELLE SDV**Credit Terms** Net 30 Days**Page** 1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FLAT CR 1 X 6 1018 RANDOM FCR-16-V 2775 1 X 6' STOCK	122.40	6.00	PI_\$CLB	6.00	PI		1.00	182.520	182.52
COUPE A LA SCIE SCIE 1		1.00	UN	1.00					
SURCHARGE ENERGETIQUE FRAIS ENERGETIQUE			\$						3.95

Total Weight (Lbs) 122.40**Important**

This offer is based on availability and current pricing conditions that may be revised upon

prévision de l'évolution des prix de l'acier sur le marché.

Cette offre est basée sur les conditions de disponibilité et de prix actuels de l'acier.

Approuved and Accepted by : _____

Date : _____

Sub-total

186.47

TVH-13 24.24

Total (\$CAD)

210.71



DELIVERY - CLIENT

CO00060831

ACIER OUELLETTE INC.

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction

F-M

Delivery Route

5

Customer N°

CLI0001056

Date

2017/11/07

Delivery date

2017/11/09

Your order N°

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ROUND SS 3/4 17-4PH NS RSS-34174 9268	36.05	24.00	PI_\$CLB				2 K				
2 X 12' HEAT: AC11066-JG-13/11							B/0				
2 ALU SHEET .032 (20G) 2024-T3 (4 X 12) BARE FEAL-0324122024 3093	21.65	48.00	PI2_\$CLB				1 X				
1 X 4' X 12' HEAT: AC11063-SA-13/11							3/0				
3 FLAT ALU 1 X 2 6061-T6 RANDOM FAL-12-V 2497	48.00	20.00	PI_\$CLB				1 X 20				
1 X 20' HEAT											

SP-A11-9

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00060831

ACIER OUELLETTE INC.

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction

F-M

Delivery Route

5

Customer N°

CLI0001056

Date

2017/11/07

Delivery date

2017/11/09

Your order N°

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

2

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
4 FLAT ALU 1 1/2 X 2 6061-T6 RANDOM FAL-1122-V 2440 1 X 12' HEAT	42.34	12.00	PI_\$CLB			1 X 12'					
5 FLAT ALU 1 1/2 X 4 6061-T6 RANDOM FAL-1124-V 2447 1 X 12' HEAT	84.59	12.00	PI_\$CLB			1 X 12'					
6 FLAT ALU 1 1/4 X 2 6061-T6 RANDOM FAL-1142-V 2456 2 X 12' HEAT:	70.56	24.00	PI_\$CLB			2 X 12'					
7 ALU PLATE 2 6061-T651 RANDOM PAL-26061-V 7470 1 X 3 1/2" X 72" HEAT	57.28	2.00	PI2_\$CLB				1 X				

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00060831

ACIER OUELLETTE INC.

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
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 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M**Delivery Route** 5**Customer N°**

CLI0001056

Date

2017/11/07

Delivery date

2017/11/09

Your order N°

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

3

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
COUPE A LA SCIE SCIE 1		1.00	UN								
<i>MATERIEL DOIT ETRE STAMPER</i>											
TRANSFERT ST-JEROME LE 09/11											
9 FLAT ALU 1 1/2 X 3 6061-T6 RANDOM ✓ FAL-1123-V 2445 <i>1 X 6' HEAT</i>	31.75	6.00	PI-\$CLB								
COUPE A LA SCIE SCIE 1		1.00	UN								

NIR : R-109516-6

Next Page...

DELIVERY - CLIENT

C000060831

ACIER
QUELLETTE INC.

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CLI0001056

Date

2017/11/07

Delivery date

2017/11/09

Your order N°

38285

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

4

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route

5

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only					
					CMD	EXP	B/6	IN	I	S	C	OUT	
10	FLAT ALU 3/4 X 2 6061-T6 RANDOM FAL-342-V 2592	36.36	20.00	PI-\$CLB		1 X							
	1 X 20' HEAT					20'							
11	FLAT ALU 3/4 X 1 6061-T6 RANDOM FAL-341-V 2588	17.62	20.00	PI-\$CLB		1 X							
	1 X 20' HEAT					20'							
12	ROUND ALU 5/8 6061-T6 RANDOM RAL-58-V 5169	7.22	20.00	PI-\$CLB		1 X							
	1 X 20' HEAT					20'							
13	ROUND ALU 1 6061-T6 RANDOM RAL-1-V 5141	37.00	40.00	PI-\$CLB		2 X							
	2 X 20' HEAT					20'							

SPR-11-L9

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00060831

ACIER OUELLETTE INC.

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to	Shipped to	Customer N°	CLI0001056
DART AEROSPACE LTD 1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	, Ontario, Att : CHANTAL LAVOIE Tél.: 613-632-5200	Date	2017/11/07
		Delivery date	2017/11/09
		Your order N°	38285
		Processed by	Josianne Bourdon
		Salesman	
		Carrier	OUELLETTE VALLEYFIELD
		Credit Terme	Net 30 Days
Instruction	F-M	Page	5

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only					
					CMD	EXP	B/O	IN	I	S	C	OUT	
14	ROUND ALU 1 1/4 6061-T6 RANDOM RAL-114-V 5121 2 X 20' HEAT	57.64	40.00	PI_\$CLB		2 X 20'							
15	ROUND ALU 3 1/4 6061-T6 RANDOM RAL-314-V 5152 3 X 12' HEAT AC11063-SA-13/11	350.64	36.00	PI_\$CLB				3 X					
16	ALU SHEET .020 (24G) 6061-T6 (4 X 12) FEAL-0204126061 3048 1 X 4' X 12' HEAT MATERIEL DOIT ETRE STAMPER	13.54	48.00	PI2_\$CLB				1 X					

NIR : R-109516-6

Next Page...

DELIVERY - CLIENT

CO00060831



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N°

CLI0001056

Date

2017/11/07

Delivery date

2017/11/09

Your order N°

38285

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

6

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
TRANSFERT ST-JEROME LE 09/11											
18 ALU SHEET .040 (18G) 6061-T6 RANDOM FEAL-0406061-V 3131 <i>3 X 4' X 12' HEAT</i>	81.07	144.00	PI2_\$CLB								
TRANSFERT ST-JEROME LE 09/11											
<i>MATERIEL DOIT ETRE STAMPER</i>											
20 ALU SHEET .064 (14G) 6061-T6 (4 X 8) FEAL-064486061 3175 <i>2 X 4' X 8' HEAT</i>	57.66	64.00	PI2_\$CLB								

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00060831

ACIER OUELLETTE INC.

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M**Delivery Route** 5**Customer N°**

CLI0001056

Date

2017/11/07

Delivery date

2017/11/09

Your order N°

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

7

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
	TRANSFERT ST-JEROME LE 09/11											
	MATERIEL DOIT ETRE STAMPE											
22	ALU SHEET .081 (12G) 6061-T6 (4 X 8) FEAL-081486061 3199 1 X 4' X 8' HEAT 358972	36.51	32.00	PI2_\$CLB		1X						
23	ALU SHEET 3/16 6061-T6 (4 X 8) FEAL-316486061 4271 1 X 4' X 8' HEAT K650144	85.92	32.00	PI2_\$CLB		1X						
24	SQUARE SS 1 SS304 RANDOM CSS-1-V 2085 2 X 12' R/L HEAT	81.60	24.00	PI_\$CLB				2X				

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00060831

ACIER OUELLETTE INC.

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M**Delivery Route** 5**Customer N°**

CLI0001056

Date

2017/11/07

Delivery date

2017/11/09

Your order N°

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

8

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only					
					CMD	EXP	B/O	IN	I	S	C	OUT	
	TRANSFERT ST-JEROME LE 09/11												
26	ROUND SS 1/2 303 RANDOM RSS-12303-V 5727 4 X 12' HEAT AC11066-JG-13/11	32.02	48.00	PI_\$CLB									
27	FLAT CR 1/4 X 3/4 1018 RANDOM FCR-1434-V 2753 1 X 12' R/L HEAT	7.66	12.00	PI_\$CLB					1 X				
28	ROUND 4140 HEAT TREAT 3/4 RANDOM R4140-34H-V 4949 1 X 6' HEAT	9.01	6.00	PI_\$CLB					1 X				

4X
12' 2"

1 X
12' 2"

6'

80/11/19

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00060831

ACIER OUELLETTE INC.

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to	Shipped to			Customer N°	CLI0001056
DART AEROSPACE LTD				Date	2017/11/07
1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	, Ontario,			Delivery date	2017/11/09
	Att : CHANTAL LAVOIE Tél.: 613-632-5200			Your order N°	38285
Instruction	F-M	Delivery Route	5	Processed by	Josianne Bourdon
				Salesman	
				Carrier	OUELLETTE VALLEYFIELD
				Credit Terme	Net 30 Days
				Page	9

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only					
					CMD	EXP	B/O	IN	I	S	C	OUT	
	COUPE A LA SCIE SCIE	1		1.00 UN									

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 1 303.69**NIR : R-109516-6**

Prepared By :	Verified By :
---------------	---------------

Delivered By :	Time
----------------	------

Customer's Signature	Y	M	D
----------------------	---	---	---

Total (\$CAD)

DELIVERY - CLIENT

CO00060833



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N° CLI0001056
Date 2017/11/07
Delivery date 2017/11/09
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 1

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
1	FLAT ALU 1/2 X 2 6061-T6 RANDOM FAL-122-V 2481 1 X 20'	23.98	20.00	PI_\$CLB				IX20				
2	ROUND ALU 3/4 6061-T6 RANDOM RAL-34-V 5157 1 X 20'	10.46	20.00	PI_\$CLB				IX20				

Total Weight (Lbs) : 34.44

NIR : R-109516-6

SPN 119

Conditions :

All sold and delivered materials remain the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By : NM	Verified By :
------------------	---------------

Delivered By :	Time
----------------	------

Customer's Signature	Y	M	D
----------------------	---	---	---

Total (\$CAD)



DELIVERY - CLIENT

CO00060835

ACIER QUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to **Shipped to**

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario.

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route

Customer N°	CLI0001056
Date	2017/11/07
Delivery date	2017/11/09
Your order N°	38285
Processed by	Josianne Bourdon
Salesman	
Carrier	OUELLETTE VALLE
Credit Term	Net 30 Days

Conditions

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 122.40

NIR : R-109516-6

Prepared By :	Verified By :
---------------	---------------

Delivered By :	Time
----------------	------

Y M D

Total (\$CAD)

Customer's Signature

Date _____



ACIER OUELLETTE INC.

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00060831

Billed to	Shipped to	Customer N°	CLI0001056
DART AEROSPACE LTD		Date	2017/11/07
1270, ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	, Ontario, Att : CHANTAL LAVOIE Tél.: 613-632-5200	Delivery date	2017/11/09
		Your order N°	38285
		Processed by	Josianne Bourdon
		Salesman	
		Carrier	OUELLETTE VALLEYFIELD
		Credit Terme	Net 30 Days
		Page	1

Delivery Route 5

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
1	ROUND SS 3/4 17-4PH NS RSS-34174 9268	36.05	24.00	PI-\$CLB	2.00			2X				
	2 X 12' HEAT: ACI1066-JG-13/11											
2	ALU SHEET .032 (20G) 2024-T3 (4 X 12) BARE FEAL-0324122024 3093	21.65	48.00	PI2-\$CLB	1.00			1X				
	1 X 4' X 12' HEAT: ACI1063-SA-13/11											
3	FLAT ALU 1 X 2 6061-T6 RANDOM DAS FAL-12-V 2497 9 9-89	48.00	20.00	PI-\$CLB	1.00							
	1 X 20' HEAT: SDX170413											
4	FLAT ALU 1 1/2 X 2 6061-T6 RANDOM DAS FAL-1122-V 2440 9 9-89	42.34	12.00	PI-\$CLB	1.00							
	1 X 12' HEAT: 385189											

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

CO00060831

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route

5

Customer N°

CLI0001056

Date

2017/11/07

Delivery date

2017/11/09

Your order N°

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

2

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
5	FLAT ALU 1 1/2 X 4 6061-T6 RANDOM FAL-1124-V 2447	DAS 9 9-86	84.59	12.00	PI-\$CLB	1.00						
6	FLAT ALU 1 1/4 X 2 6061-T6 RANDOM FAL-1142-V 2456	DAS 9 9-86	70.56	24.00	PI-\$CLB	2.00						
7	ALU PLATE 2 6061-T651 RANDOM PAL-26061-V 7470		57.28	2.00	PI2-\$CLB	1.00						
	1 X 3 1/2" X 72" HEAT COUPE A LA SCIE SCIE 1			1.00	UN							
	MATERIEL DOIT ETRE STAMPER											

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

CO00060831

Billed to	Shipped to	
DART AEROSPACE LTD 1270, ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	, Ontario, Att : CHANTAL LAVOIE Tél.: 613-632-5200	
	Delivery Route	5
		Page
		3

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
	TRANSFERT ST-JEROME LE 09/11				0.00							
9	FLAT ALU 1 1/2 X 3 6061-T6 RANDOM FAL-1123-V 2445	31.75	6.00	PI-\$CLB	1.00							
	1 X 6' HEAT : 52246											
	COUPE A LA SCIE											
	SCIE 1											
10	FLAT ALU 3/4 X 2 6061-T6 RANDOM FAL-342-V 2592	36.36	20.00	PI-\$CLB	1.00							
	9											
	9.80											
	1 X 20' HEAT : 70630											
11	FLAT ALU 3/4 X 1 6061-T6 RANDOM FAL-341-V 2588	17.62	20.00	PI-\$CLB	1.00							
	6											
	9.80											
	1 X 20' HEAT : 3B2828											

NIR : R-109516-6

Next Page...


ACIER OUELLETTE INC.

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales
Copy

CO00060831

Billed to	Shipped to	Customer N°	CLI0001056
DART AEROSPACE LTD		Date	2017/11/07
1270, ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	, Ontario, Att : CHANTAL LAVOIE Tél.: 613-632-5200	Delivery date	2017/11/09
		Your order N°	38285
		Processed by	Josianne Bourdon
		Salesman	
		Carrier	OUELLETTE VALLEYFIELD
		Credit Terme	Net 30 Days
		Page	4

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
12	ROUND ALU 5/8 6061-T6 RANDOM DAS RAL-58-V 5169 9 9-82 1 X 20' HEAT: 66092	7.22	20.00	PI-\$CLB	1.00							
13	ROUND ALU 1 6061-T6 RANDOM RAL-1-V 5141 17/11/16 2 X 20' HEAT: 36585	37.00	40.00	PI-\$CLB	2.00							
14	ROUND ALU 1 1/4 6061-T6 RANDOM RAL-114-V 5121 DAS 9 9-82 2 X 20' HEAT: 68467	57.64	40.00	PI-\$CLB	2.00							
15	ROUND ALU 3 1/4 6061-T6 RANDOM RAL-314-V 5152 3 X 12' HEAT: AC11063-SA-13/11	350.64	36.00	PI-\$CLB	3.00			3X				

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

CO00060831

Billed to DART AEROSPACE LTD
 1270 ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to
 , Ontario,
 Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page 5

Customer N° CLI0001056
Date 2017/11/07
Delivery date 2017/11/09
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Termes Net 30 Days

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
16	ALU SHEET .020 (24G) 6061-T6 (4 X 12) FEAL-0204126061 3048	13.54	48.00	PI2_SCLB	1.00			1X				
	1 X 4' X 12' HEAT MATERIEL DOIT ETRE STAMPER											
	TRANSFERT ST-JEROME LE 09/11											
18	ALU SHEET .040 (18G) 6061-T6 RANDOM FEAL-0406061-V 3131	81.07	144.00	PI2_SCLB	0.00	3.00		3X				
	3 X 4' X 12' HEAT TRANSFERT ST-JEROME LE 09/11											
	MATERIEL DOIT ETRE STAMPER											
20	ALU SHEET .064 (14G) 6061-T6 (4 X 8) FEAL-064486061 3175	57.66	64.00	PI2_SCLB	2.00			2X				
	2 X 4' X 8' HEAT											

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00060831

Billed to
 DART AEROSPACE LTD
 1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to
 , Ontario,
 Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page 6

Customer N° CLI0001056
Date 2017/11/07
Delivery date 2017/11/09
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Term Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
TRANSFERT ST-JEROME LE 09/11				0.00							
MATERIEL DOIT ETRE STAMPE											
22 ALU SHEET .081 (12G) 6061-T6 (4 X 8) FEAL-081486061 3199 DAS 1 X 4' X 8' HEAT : 358972 9	36.51	32.00	PI2-\$CLB	1.00							
23 ALU SHEET 3/16 6061-T6 (4 X 8) FEAL-316486061 4271 DAS 1 X 4' X 8' HEAT Z B 16104 6101 9	85.92	32.00	PI2-\$CLB	1.00							
24 SQUARE SS 1 SS304 RANDOM CSS-1-V 2085 9-50 2 X 12' R/L HEAT	81.60	24.00	PI-\$CLB	2.00							

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00060831

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2017/11/07

Delivery date

2017/11/09

Your order N°

38285

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

7

Delivery Route

5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
TRANSFERT ST-JEROME LE 09/11				0.00							
26 ROUND SS 1/2 303 RANDOM				4.00							
RSS-12303-V 5727	32.02	48.00	PI_SCLB								
4 X 12' HEAT											
ACI1066-JG-13/11											
27 FLAT CR 1/4 X 3/4 1018 RANDOM											
FCR-1434-V 2753 9-84	7.66	12.00	PI_SCLB	1.00							
1 X 12' R/L HEAT : 3071113											
28 ROUND 4140 HEAT TREAT 3/4 RANDOM											
R4140-34H-V 4949	9.01	6.00	PI_SCLB	1.00							
1 X 6' HEAT: M52573											
COUPE A LA SCIE											
SCIE 1 9-84		1.00	UN								

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00060831

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Customer N°

CLI0001056

Date

2017/11/07

Delivery date

2017/11/09

Your order N°

38285

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

8

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
SURCHARGE ENERGETIQUE FRAIS ENERGETIQUE			\$	0.00							

Total Weight (LBS) : 1 303.69

NIR : R-109516-6

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :
---------------	---------------

Delivered By :	Time
----------------	------

Customer's Signature

Y	M	D

Total (\$CAD)	5 364.58
Deposit	0.00
Balance	5 364.58


ACIER OUELLETTE INC.

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales
Copy

CO00060833

Billed to

DART AEROSPACE LTD

 1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Customer N°

CLI0001056

Date

2017/11/07

Delivery date

2017/11/09

Your order N°

38285

Processed by

Josianne Bourdon

Salesman
Carrier

OUELLETTE VALLEYFIELD

Credit Term

Net 30 Days

Page

1

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
1	FLAT ALU 1/2 X 2 6061-T6 RANDOM FAL-122-V 2481 <i>1 X 20' HEAT: 68289</i>	23.98	20.00	PI_SCLB	1.00							
2	ROUND ALU 3/4 6061-T6 RANDOM RAL-34-V 5157 <i>1 X 20' HEAT: 68706</i>	10.46	20.00	PI_SCLB	1.00							

Total Weight (LBS) : 34.44

NIR : R-109516-6

Conditions :

All sold and delivered materials remain the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :
---------------	---------------

Delivered By :	Time
----------------	------

Customer's Signature	Y	M	D
----------------------	---	---	---

Total (\$CAD)	96.90
Deposit	0.00
Balance	96.90

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

CO00060835

Billed to	Shipped to	Customer N°	CLI0001056
DART AEROSPACE LTD		Date	2017/11/07
1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	, Ontario, Att : CHANTAL LAVOIE Tél.: 613-632-5200	Delivery date	2017/11/09
		Your order N°	38285
		Processed by	Josianne Bourdon
		Salesman	
		Carrier	OUELLETTE VALLEYFIELD
		Credit Terme	Net 30 Days
		Page	1

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only					
					CMD	EXP	B/O	IN	I	S	C	OUT	
1	FLAT CR 1 X 6 1018 RANDOM FCR-16-V 2775 <i>1 X 6' heat: 3066812</i> COUPE A LA SCIE SCIE 1	122.40	6.00	PI_CLB	1.00								
			1.00	UN									

Total Weight (LBS) : 122.40

NIR : R-109516-6

Conditions :

All sold and delivered material's remain the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net: 30 days from billing date and the buyer accepts to pay administrative charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :	Delivered By :	Time	Customer's Signature	Y	M	D
					1	1	1

Total (\$CAD)	206.25
Deposit	0.00
Balance	206.25



935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

~~PRINTED - SALES~~

COPY

LUUUU60835

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Customer N°

CLI0001056

Date

2017/11/07

Delivery date

2017/11/09

Your order N°

38285

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Termé

Net 30 Days

Page

1

1	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
1	FLAT CR 1 X 6 1018 RANDOM FCR-16-V 2775 <i>1 X 6' ht: 3066812</i> COUPE A LA SCIE SCIE 1	122.40	6.00	PI_SCLB	1.00							
			1.00	UN								

REÇU LE 18 NOV. 2017

Total Weight (LBS) : 122.40

NIR : R-109516-6

Conditions :

All sold and delivered materials remain the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc" is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc" to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge. .

Prepared By :	Verified By :
---------------	---------------

Delivered By :	Time
----------------	------

Customer's Signature	Y	M	D

Total (\$CAD)	206.25
Deposit	0.00
Balance	206.25

**ACIER OUELLETTE INC.**

935, Boul. du Havre .
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 MU: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 MU: 514-336-4246 Ext.: 866-456-4242

Invoice

FC00062517

Sold to
DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to
, Ontario,

Customer N° CLI0001056
Date 2017/11/10
Your order N° 38285
Processed by Melanie
Salesman JOSIANNE
Carrier OUELLETTE VALLEYFIELD
Credit Term Net 30 Days
Order N° CO00060831
Page 2

Att : Facturation

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
RANSFERT ST-JEROME LE 09/11	0.00								
LAT ALU 1 1/2 X 3 6061-T6 RANDOM AL-1123-V 2445 1 X 6' HEAT: 52246 M	31.75	6.00	PI_\$CLB	6.00	PI		1.00	94.440	84.44
LAT ALU 3/4 X 2 6061-T6 RANDOM AL-342-V 2592 1 X 20' HEAT: 70630	36.36	20.00	PI_\$CLB	20.00	PI		1.00	107.610	107.61
LAT ALU 3/4 X 1 6061-T6 RANDOM AL-341-V 2588 1 X 20' HEAT: 382828	17.62	20.00	PI_\$CLB	20.00	PI		1.00	52.150	52.15
ROUND ALU 5/8 6061-T6 RANDOM AL-58-V 5169 1 X 20' HEAT: 66092	7.22	20.00	PI_\$CLB	20.00	PI		1.00	21.370	21.37
ROUND ALU 1 6061-T6 RANDOM AL-1-V 5141 1 X 20' HEAT: 36585	37.00	40.00	PI_\$CLB	40.00	PI		2.00	49.200	98.40
ROUND ALU 1 1/4 6061-T6 RANDOM AL-114-V 5121 1 X 20' HEAT: 68467	57.64	40.00	PI_\$CLB	40.00	PI		2.00	76.645	153.29
ROUND ALU 3 1/4 6061-T6 RANDOM AL-314-V 5152 3 X 12' HEAT: 37876 4C1063-SA-13/11	0.00	0.00	PI_\$CLB	0.00	PI		3.00	369.283	0.00
ALU SHEET .020 (24G) 6061-T6 (4 X 12) EAL-0204126061 3048 1 X 4' X 12' HEAT MATERIEL DOIT ETRE STAMPER	0.00	0.00	PI2_\$CLB	0.00	UN		1.00	83.370	0.00

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6LD150
 DATE: 7.11.19

PO / BATCH NO.: 038245 / 8008431

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20
 QUANTITY INSPECTED: 20
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750"
 THICKNESS RECEIVED: 0.750"
 SHEET SIZE ORDERED: 11/12
 SHEET SIZE RECEIVED: 11/12

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<i>Asym B-221-14</i>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<i>Heat # 68706</i>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>JK</u> <u>045</u>	SIGNED OFF BY: _____
DATE: <u>7.11.19</u> <u>960</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHAT'S CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2,...) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

8 7 6 5 4 3 2 1

SPECIFICATION CONTROL DRAWING

D

D

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221



PART NUMBER: M6061T6R[D.DDD]
 DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

C

C

B

B

RELEASED
 R 2009-09-09
 JAP

B	REFORMAT DWG, ADD B211& B221 SPEC (ZN D8-1), REF PAR 08-020A		CP	09.07.13
A	NEW ISSUE		DS	01.06.08
REV.	DESCRIPTION	BY	DATE	
DESIGN	<i>AF</i>	DART AEROSPACE LTD		
DRAWN	<i>GP</i>	HAWKESBURY, ONTARIO, CANADA		
CHECKED	<i>BB</i>	DRAWING NO.	REV. B	
MFG. APPR.	<i>MM</i>	M6061T6R	SHEET 1 OF 1	
APPROVED	<i>MM</i>	TITLE	SCALE	
DE APPR.	<i>MM</i>	6061-T6 ROUND BAR	NTS	
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>		

8 7 6 5 4 3 2 1

A

A

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M60617LB0200X2000
 DATE: 12.11.19

PO / BATCH NO.: 082255/3004430

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20
 QUANTITY INSPECTED: 20
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .500"
 THICKNESS RECEIVED: .500"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>Assy m B-221-2</i>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>heat # 68289</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u>	SIGNED OFF BY: _____
DATE: <u>12.11.19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIRMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVIED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN **20pcs** FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIRMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIRMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVIED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2,...) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC CORRDINATOR BEFORE GOING FURTHER

8 7 6 5 4 3 2 1

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ~~ASTM B221~~



PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |
 THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
 2009-09-03
[Signature]

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)		CP	09.07.13
A	NEW ISSUE		DS	01.06.08
REV.	DESCRIPTION		BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	<i>gp</i>			
CHECKED	<i>RJS</i>	DRAWING NO. M6061T6B REV. B		
MFG. APPR.	<i>TM</i>	SHEET 1 OF 1		
APPROVED	<i>MAD</i>	TITLE 6061-T6 BAR NTS		
DE APPR.	<i>SH</i>			
DATE	09.07.13			

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 WRITTEN PERMISSION FROM DART AEROSPACE LTD

8 7 6 5 4 3 2 1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H6061T63.500X3.000
 DATE: 17.11.16

PO / BATCH NO.: 035285 / S004120

MATERIAL CERT REC'D: Y
 QUANTITY RECEIVED: 6
 QUANTITY INSPECTED: 6
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.500"
 THICKNESS RECEIVED: 1.500"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N	<u>ASTM B22.1/S022.1</u>
CORRECT THICKNESS	Y <input checked="" type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N	<u>Heat # 52246</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAD</u> <u>9</u> <u>14</u>	SIGNED OFF BY: _____
DATE: <u>17.11.16</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD

note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2,...) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221



PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03
M

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)		CP	09.07.13
A	NEW ISSUE		DS	01.06.08
REV.	DESCRIPTION		BY	DATE
DESIGN	DS	DART AEROSPACE LTD		
DRAWN	99	HAWKESBURY, ONTARIO, CANADA		
CHECKED	AJS	DRAWING NO.	REV. B	
MFG. APPR.	MM	M6061T6B	SHEET 1 OF 1	
APPROVED	MM	TITLE	SCALE	
DE APPR.	MM	6061-T6 BAR	NTS	
DATE	09.07.13	COPRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H1018B125X0.750
 DATE: 17.11.19

PO / BATCH NO.: 038285/2008408

MATERIAL CERT REC'D: YOS
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750-.125"
 THICKNESS RECEIVED: .750-.125"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/>	N
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/>	N/A for dart tooling use only P12
CORRECT THICKNESS	Y <input checked="" type="radio"/>	N
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/>	3071118
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/>	N
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/>	N
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>9</u> <u>9.0</u>	SIGNED OFF BY: _____
DATE: <u>17.11.19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
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- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

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 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2,...) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address : 4054 BOUL. LE CORBUSIER, #201
LAVAL, QC
H7L5R2

commande Sapa / Sapa order # : 7011453

bon de commande / Purchase order # : OU-47404

de matrice / Die # : MS 9435 Description : 2"X.5"FLAT BAR

Alliage & trempage / Alloy & temper : 6061 T6 Longueur / Length : 6096 mm

Contrôle / Control # : 84114-1

Coulée / Cast # : 68289

Dureté Rockwell E / Min. requis / Max. permis /
Rockwell E hardness : 95 HRE Min. required : 88 HRE Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	---	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre, date : 2017-02-09
Yours truly,



Gilles Pellefier
Technicien de la qualité
Quality technician



Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL. LE CORBUSIER, #201
LAVAL, QC
H7L5R2**

commande Sapa / Sapa order # : **7020941**

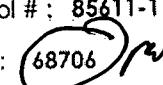
bon de commande / Purchase order # : **OU-47416**

de matrice / Die # : **MS.9909**

Description : **3/4"ROD** 

Alliage & trempage / Alloy & temper : **6061 T6** Longueur / Length : **6097 mm**

Contrôle / Control # : **85611-1**

Coulée / Cast # : **68706** 

Dureté Rockwell E / Min. requis / Max. permis /
Rockwell E hardness : **91 HRE** Min. required : **88 HRE** Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0,20 - 0,60	0,35 Max	0,10 Max	0,10 Max	0,45 - 0,90	0,10 Max	0,10 Max	0,10 Max
6005	0,60 - 0,90	0,35 Max	0,10 Max	0,10 Max	0,40 - 0,60	0,10 Max	0,10 Max	0,10 Max
6005A	0,66-0,74	0,14 - 0,28	0,08 - 0,16	0,18 - 0,26	0,46 - 0,54	0,03 Max	0,05 Max	0,05 Max
6061	0,40 - 0,80	0,70 Max	0,15 - 0,40	0,15 Max	0,80 - 1,20	0,04 - 0,35	0,25 Max	0,15 Max
6351	0,7 - 1,3	0,5 Max	0,10 Max	0,40 - 0,80	0,40 - 0,80	---	0,20 Max	0,20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre, 
Yours truly,

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

A 2497

C74066



Global Vietnam Aluminium Company Limited

Address: MY XUAN B1-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIETNAM
Tel: +84(0)643924954
Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: 14 April, 2017

Consignee: SINOPEC TRADING INC.
4455 RUE COUSENS SAINT-LAURENT, QC, H4S 1X5, CANADA
PO number: P-17065
Shipping Ref No.: 17-0456
LC No.: DC HMN711129
Date of issue: 24 March, 2017
Item Code: 1015300
Die Number: D00227
Alloy & Temper: 6061-T6511
Production Description: FLAT BAR SC 1.000 X 2.00 X 144" 6061-T6511 D00227
Length (inch): 144
Bundle number: P-17065-384
Heat Number: SXDI70413 DAS
Date: 02/04/2017 9
Applicable Specifications: ASTM B221 STANDARDS 9-89

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									EACH	TOTAL	
0.620	0.906	0.160	0.243	0.019	0.080	0.012	0.017	97.894	<0.05	<0.10	30/03/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
39.6	35.7	10.8	30/03/2017

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TNHH NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

R378797



TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST

		S795 CERT CODE: 9	DIE NUMBER S 4659	DATE OF SHIPMENT Mar/23/2017	EXTRUDEX ORDER NO. 203596 — 16 MANIFEST NO. 367427
1582		CUSTOMER PO C74143	ALLOY 6061 / TEMPER T6511 /	SALESMAN HOUSE ACCOUNTS	MADE IN CANADA
SO DESCRIPTION 2"x1.5" Flat Bar		CUSTOMER PART NUMBER V836591	PART DESCRIPTION 2"x1.5" Flat Bar		CERTIFICATION ASTM B221-14 AMS QQA 200/8

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Mar/22/2017	48.70	45.60	12.70	93.0,93.2,93.4	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
385189	DAS	A.11	6061	0.59	0.16	0.2	0.04	0.84	0.07	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
Quality Control Manager

1 - CUSTOMER COPY



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



OUR ORDER NUMBER	ITEM
289111	12

CERTIFICATION
ASTM-B221-14 No Stencil
SPECIFICATION
(AMS-QQA-200/8 Rev-A)

MANIFEST NUMBER	327714	DIE NUMBER	RB0142	DATE OF SHIPMENT	3/29/2017
CUSTOMER PO	C74189	ALLOY/TEMPER	6061-T6511	SALESPERSON	D.Schroeder (Canada)
Quantity Certified	1,708 lbs	CUSTOMER PART NUMBER	V830291-MRB0467	DESCRIPTION	SCRB 1.500x4.000

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

This product is RoHS-2, REACH, and DFARS compliant.

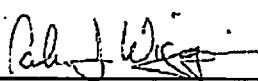
Mechanical Properties		Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
Tests	Lot No.		min	max	min	max	min	max
2	201704805	DAS 9 9.59	3/26/17	51.00	51.20	47.20	47.20	17.30 18.30

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Others	Each	Total	Melt Source:
03191702	201704805	6061	0.77	0.40	0.33	0.11	0.85	0.11	0.08	0.02	97.33		0.05	0.15	United States of America

#04471
SCM products are melted and extruded in the USA

Print Date: 3/29/2017


Calvin J. Wiggins, Director of Quality & Technical Services

Rev 9/8/16

#2456

FAL-1142-12

PO. 9353

48746

CAN ART
ALUMINUM EXTRUSION L.P.

Material Test Report

Manifest: 709584

Ticket:

1698543

Our Order: 879031 - 1 Cust P.O.: 791663
 Die: ES04038 Part: 160001442
 Alloy Temper: 6061 T6511 Description: 1.250 x 2.000 RECT. BAR
 Print Date: 6/22/17

DAS 9 Cast#	Chemical Composition									Maximum
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other Each	
3B5790	0.60	0.17	0.22	0.04	0.81	0.06	0.01	0.02	0.05	0.15

Mechanical Properties										
Strength ksi										
Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length				
71383	3B5790	A11	6/14/17	44.71	41.46	15.5				

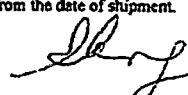
Applicable Specifications: ASTMB221-14 AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Eric Hote - Tensile Testing

Authorized:



Evan Eng, Quality Assurance Manager

142045

ROCKWELL TEST

Customer	Date	Location	
LES ACIERS	10/11/2011	Mississauga	
Customer.#	61562	Order #	1091038
Control #	11809-1	P.O. #	OU-35922
Cust Part #	3" X 1 1/2" Rect. Bar	Die #	AS 8030
Alloy & Temper	6061 T6	Cast #	52246

Test results

ROCKWELL R_E

Min. Required	88
Actual	94

Typical Chemistry 1 6061

Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti
0.4-0.8	0.7mx	0.15-0.4	0.15mx	0.8-1.2	.04-.35	0.05mx	0.2mx	0.20mx

Tensile testing is performed according to ASTM B557.84 requirements

Mechanical test results conform to specifications for ASTM B221/SB221

The aluminum extrusions tested meet the chemical composition requirements of the alloy specified.

Test certified by Anil Verma

Date 10/11/2011

Sapa Extrusion
5675 Kennedy Rd.
Mississauga, ON, L4Z 2H9

Tel: (905) - 890 - 8821
Fax: (905) - 890 - 3670

FAC 1123

IRA 1752

2592

FAL-342-7

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : LES ACIERS TRANSBEC (1997) LTÉE.

Adresse / Address : 4054 BOUL. LE CORBUSIER # 201
LAVAL, QC
H7L5R2

commande Sapa / Sapa order # : 7100203

bon de commande / Purchase order # : OU-48345

de matrice / Die # : MS 15953 Description: 2x3/4" FLAT BAR

Alliage & trempage / Alloy & temper : 6061 T6 Longueur / Length : 6096 mm

Contrôle / Control # : 563-1 A4S

Coulée / Cast # : 70630 9 8.40

Dureté Rockwell E / Min. requis / Max. permis /
Rockwell E hardness : 94 HRE Min. required : 88 HRE Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	...	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre, date : 2017-10-30
Yours truly,

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

2588

MILL TEST

SO DESCRIPTION 3/4"X1" FLAT BAR	CERT CODE:	DIE NUMBER	DATE OF SHIPMENT	ORDER NO.	MANIFEST NO.
	CUSTOMER PO C72843X	S 2444 ALLOY 6061 TEMPER T6511	Jun/27/2016 SALESMAN HOUSE ACCOUNTS	194907 — 5	351750
CUSTOMER PART NUMBER V836442	PART DESCRIPTION	MADE IN CANADA			
	3/4"X1" FLAT BAR	CERTIFICATION ASTM B221-14 AMS QQA 200/8			
SPECIFICATION Samuel stnd shapes					

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Jun/18/2016	45.10	40.70	16.10	89.7, 90.3, 90.0	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
382828	DAS	A.11 6061	0.61	0.15	0.22	0.04	0.89	0.07	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.


David Natale
Quality Control Manager

1 - CUSTOMER COPY

8169

45854

68623

RAL 58

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTÉE.**

Adresse / Address : **4054 BOUL. LE CORBUSIER, #201
LAVAL, QC
H7L5R2**

commande Sapa / Sapa order # : **6031289**

bon de commande / Purchase order # : **OU-45668**

de matrice / Die # : **MS 9907**

Description: **5/8"DIA ROD**

Alliage & trempage / Alloy & temper : **6061 T6** Longueur / Length : **6097 mm**

de contrôle / Control # : **65547-1**

de coulée / Cast # : **66092**

D4S
9
9.89

Dureté Rockwell E / Min. requis / Max. permis /
Rockwell E hardness : **93 HRE** Min. required : **88 HRE** Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	---	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre, **date : 2016-05-12**
Yours truly,



Gilles Pelleter
Technicien de la qualité
Quality technician

VENDU À
ACIERS TRANSBEC (1997) LTEE
4054, BOUL LE CORBUSIER
#201
LAVAL, QC
H7L 5R2
NO CLIENT: 3693

LIVRÉ À
ACIER OUELLETTE
22, BOUL J-F KENNEDY
ST-JEROME, QC J7Y 4B6
NO CLIENT: L-3693-3

NO DU BON	DATE DE LIVRAISON
120719	30/May/17
NIR:	NO DE TÉLÉPHONE DU CLIENT:
R-015478-2	450-963-3693
NO COMMANDE CLIENT:	REPRÉSENTANT:
OU-47807	Guillaume Morin
CHAUFFEUR:	NO COMMANDE EXTRUDEX:
JP COMEAU	105013

NO REF.	NO DE PIÈCE DU FABRICANT	NO PIÈCE CLIENT	DESCRIPTION DU MATERIEL	LONGUEURS	DEFINITION	COMMANDE CLIENT	NO DE LA VENDEUR	NO TICKET	NO DE LIVRAISON	OK
			ALUAGE/ PREMIER PAGE			NO PIÈCES / KILOS	NB PIÈCES / KILOS	NB PIÈCES / KILOS	NB PIÈCES / KILOS	
15	SA00582		TIGE RONDE 1/4" 6061/T6	6096mm	NATUREL MILL	60 500	0 0	105013-15-1A1	402302	66 548 100.0% <input type="checkbox"/>
					RAL 1					
							Sous-Total:	1	66 548	

3 MILLTEST + CERT. CONFORMITÉ

Mill Test (Tensile Properties of Aluminum)

Test Date.: 25/May/17

Order No.	Alloy	Temper	Yield (ksi)	Ultimate Tensile (ksi)	Total Elongation (%)	Hardness (Rockwell E)	Conductivity %	Report No.
105013-15-1A1	6061	T6	41.9	45.7	14.85	95.10		7142

Certificate of compliance (Certificat de conformité)

Normes: (ANSI H35.1-1997) & (ASTM B221)

Order No. Hardness (Webster) Cast No. CAST CHEMICAL COMPOSITION:

Order No.	Hardness (Webster) #1	Hardness (Webster) #2	Cast No.	CAST CHEMICAL COMPOSITION:	AI	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co
105013-15-1A1	15	15	36585		98.02	0.57	0.20	0.19	0.06	0.86	0.06	0.00	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

VÉRIFICATION DE MATERIEL

DATE 30/05/17

VÉRIFIÉ PAR [Signature]

#5141

SIGNATURE

SIGNATURE
CLIENT:

DATE:

14

#5121

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL. LE CORBUSIER, #201
LAVAL, QC
H7L5R2**

commande Sapa / Sapa order # : **7020941**

bon de commande / Purchase order # : **OU - 47416**

de matrice / Die # : **MS 9915** Description **1.25" DIA.ROD**

Alliage & trempage / Alloy & temper : **6061 T6** Longueur / Length : **6097 mm**

Contrôle / Control # : **85609-1**

Coulée / Cast # : **68467**

Dureté Rockwell E / Rockwell E hardness : **92 HRE** Min. requis / Min. required : **88 HRE** Max. permis / Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Tl
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	---	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the **ASTM B-221-14** except for section 8.2 (number of specimen).

Sincèrement vôtre,
Yours truly,

date : **2017-03-14**

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

CERTIFIED INSPECTION REPORT

marco Bazzani

Terminology

"MAGNETIC" 2

Arctostaphylos

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Stop From REVERSED TO

Digitized by Google

Item Description

128 IN IN (+0.0000 - 00451) Y 48.0 IN IN (+.175
129) X 144.0 IN IN (+.15625 -.15625) CAT B 126901 (N) A/T 6000
16 FLAT SHEET FOR DISTRIBUTORS TOLERANCE
GUARANTEED. AAMS4027 REV H ASHBB5.2 REV 2013 EXC_MRK ASMN-SR
209 REV 15 EXC_MRK ASTM#B209 REV 16
(MANUFACT) KODAK PAPER INTRALAYERED
MAX GROSS SKIN WT: 4750 LB CURN TOL +/-
10 * COR D126901 REV 46 CUST REQ 17-04-
18 CUST MRK 17-04-18

DAS
9
9/22

8-3 Yankee Ticket - 10

LINE	PACKAGE	TICKET	QTY	WEIGHT	QUANTITY	SDN	INSPECTOR	CHECK NUMBER
1	275670	358972	1	3849	75	PC	27705	47476
2	277855	358972	1	1896	37	PC	27705	47476
3	277855	358972	1	1794	36	PC	27705	47476
				7539	147			

Notes for GDB: B126201-16

PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF ~~AMS-00-A-250-11~~ ORIGINAL PUBLISH DATE

CQR: D126901.46 -Specification Limits-----
 TSPR Dir WTS TYS SLAD
 TS Long Transv KSI KSI PCT
 Max Min 42.0 36.0 12

Chemical Composition	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other		Aluminum
									Each	Total	
Alloy 6061	Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15
	Min	0.40	0.15			0.8	0.04				REMAIN

#3199

CERTIFIED INSPECTION REPORT

It is hereby certified that the material covered by this certificate has been inspected and has been found to meet the applicable requirements contained in the following specification forming a part of the description and has samples representative of the material for the purpose of future reference and has the mechanical properties shown on the face of this sheet.

This test report will be furnished to the City of Davenport, Iowa, and the City of Davenport, Iowa, has the mechanical properties shown on the face of this sheet.

Argonite

DAVENPORT WORKS 4870 State Street Bettendorf, IA 52722

Ship From: DAVENPORT, IA

Ship Date: 3/17/2017 ILL No.: 11293075 Job No.: 10000001414-1 Argonite No.: Item: 10000001414-1

P.O. No./Contract No.: Customer: Argonite Item:

J. M. H.

J. M. H.

Marked by:

Reviewed by:

Manufacturing Director - Quality Assurance

Quality Assurance Manager

Page 2 of 3

→ CSM: D1400: 4.6 - Specification Limits (cont.)

CSM: 358972 - Mechanical, Physical, Metallurgy, Quantometer Results

Type	Dir	Test	UTS	TYS	EL40
To	Long Transv.	10	KSI	KSI	PCT
			50.2	43.9	12.5
			50.1	43.8	12.7
			50.2	43.9	12.2
			50.1	43.9	12.1
			50.1	43.8	12.4
			50.2	44.2	12
			50.3	43.8	12
			50.2	43.7	12.1
			50.5	43.9	12.3
			50.3	43.8	12.7

Cast Number: Chemical - OBS SI P% CU MN MG CR ZN TI Other Each Other Total
 32743033 Actuals 0.65 0.5 0.22 0.06 0.9 0.16 0.02 0.02 < 0.05 < 0.15

Lot: 358973 - Mechanical, Physical, Metallurgy, Quantometer Results

Type	Dir	Test	UTS	TYS	EL40
To	Long Transv.	10	KSI	KSI	PCT
			50.4	46.2	12.2
			50.3	44	12.2
			50.5	44.2	11.7
			50.4	46.2	11.8
			50.3	44.1	11.9
			50.4	46.2	11.6
			50.4	46.3	11.5
			50.6	46.2	11.7
			50.3	43.8	12.1
			50.3	43.8	12.1

Cast Number: Chemical - OBS SI P% CU MN MG CR ZN TI Other Each Other Total
 32743024 Actuals 0.65 0.5 0.24 0.06 0.9 0.16 0.03 0.02 < 0.05 < 0.15

CERTIFIED INSPECTION REPORT

11.10.0205.540100 that the medium reported by the contractor has been checked over, and has been found to be true. The information contained in the said sheet is being used by the Quality Department in setting a plan of the despatch and that Company is grateful to the contractor for the accurate and complete information contained in the information reported on this sheet.

11.10.0205.540100 The contractor shall be responsible for any damage to the under-sealings of the Quality Department. No credit will be given to the contractor for any damage to these sealings. The responsibility of the contractor, in respect of the under-sealings, starts at the date of the delivery of the equipment and continues until the date of the delivery of the equipment.

11.10.0205.540100

Aeromac

DAVENPORT WORKS 4879 State Street, Davenport, IA 52713

Shia Islam

11-6441 0
Ship Date B.I. No. Invoice No. Account No. Reg. Date
10-17-01 25 11293675 05000 101011931544 05-1-2001
P.O. No./Govt Contract No. Account Type

5/16/54 - 7-100
Hans Schaefer
1400 North Drury - Cincinnati 8, Ohio
Telephone: 6-6111 6-6111

Page 1 of 9

This material was tested in the United States or a Qualifying Country (49 CFR 225.972.1(a)), as was manufactured in the United States.

#9271

ACIER OUELLETTE INC. P.O. - AC4014 S.O. - 389102

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

This MTR contains 1 page (Page# 1)

Customer: RYEBRA PO#:788432 SO#:LRMY74
Item:19048966061T6 Bundle:ZB-1610Y6101-6 Heat#:ZB-1610Y6101

MTR#:HECL2837.GIF

HECL2837

HENAN MINGTAI AL. INDUSTRIAL CO., LTD
HUIGUO ZHEN, GONGYI, HENAN, CHINA 451283
TEL: 371-67898611 FAX: 371-67898612

MILL TEST CERTIFICATE

TO:

TA CHEN INTERNATIONAL INC.
 5855 OBISPO AVENUE
 LONG BEACH, CA 90805

TEL: (562)808-8199

FAX: (562)808-8110

INVOICE NO.:

H-TZCH161037

PO NO.:

L59891-S/L60566-S/L60585-S/L60590-S/L60801/L61055/
 L61061/L61066/L61074/N10081-I/N10141-I/N10267/
 N10271/N10293/N10376/N10377

LOADING PORT:

XINGANG, CHINA

DESTINATION:

CHICAGO, USA

SHIPPING MARKS:

N/M

DATE:

27-Oct-16

ISF NO.:

8EFT31182612382

DESCRIPTION OF GOODS:

ALUMINUM COIL 3003 H14

CERTIFIED TO ALL AA, ASTM B209-14, AMS/QQA 250/2, AMS 4008K SPECS.

ALUMINUM COIL 3003 H22/H24TB

CERTIFIED TO MINGTAI TREAD BRIGHT SPECS.

ALUMINUM COIL 5005 O

CERTIFIED TO ASTM B209-14.

ALUMINUM COIL AND SHEET 5052 H32

CERTIFIED TO ALL AA, ASTM B209-14, AMS/QQA 250/8, AMS 4016M SPECS.

ALUMINUM SHEET 6061 T6

CERTIFIED TO ASTM B209-14, ASME SB-209, AMS 4027N, AMS-QQ-A-250/1 SPECS.

CIF CHICAGO, USA

CHEMICAL COMPOSITION

Alloy/Tmp	Lot No.	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	AI
STANDARD		0.6	0.7	0.05-0.2	1.0-1.5	-	-	0.1	-	0.15	REMAIN
3003 H14	A-1610694	0.069	0.587	0.123	1.168	0.009	0.008	0.005	0.033	0.15	REMAINDER
3003 H14	A-1610718	0.110	0.580	0.120	1.120	0.023	0.000	0.010	0.029	0.15	REMAINDER
3003 H14	A-1610721	0.081	0.586	0.115	1.144	0.025	0.006	0.004	0.030	0.15	REMAINDER
3003 H14	A-1610750	0.070	0.570	0.120	1.130	0.010	0.000	0.000	0.029	0.15	REMAINDER
3003 H22/H24	Z-1610YB166	0.120	0.590	0.120	1.130	0.010	0.000	0.010	0.028	0.15	REMAINDER
3003 H22/H24	Z-1610YB196	0.120	0.591	0.125	1.135	0.039	0.010	0.005	0.033	0.15	REMAINDER
3003 H22/H24	Z-1610YB299	0.099	0.558	0.086	1.041	0.024	0.014	0.017	0.030	0.15	REMAINDER
Alloy/Tmp	Lot No.	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	AI
STANDARD		0.3	0.7	0.2	0.2	0.50-1.1	0.1	0.25	-	0.15	REMAIN
5005 O	B-16101135	0.048	0.214	0.006	0.026	0.055	0.022	0.005	0.019	0.15	REMAINDER
Alloy/Tmp	Lot No.	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	AI
STANDARD		0.25	0.4	0.1	0.1	2.2-2.8	0.15-0.35	0.1	0.023	0.15	REMAIN
5052 H32	B-16101234	0.087	0.362	0.015	0.052	2.388	0.175	0.010	0.012	0.15	REMAINDER

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

This MTR contains 2 pages (Page# 1)

Customer: RYEBRA PO#:788432 SO#:LRMY4

MTR#:HECL2837.GIF

Item:19048966061T6 Bundle:ZB-1610Y6101-6 Heat#:ZB-1610Y6101

5052 H32	B-16101246	0.060	0.190	<0.010	0.050	2.490	0.210	0.010	0.020	0.16	REMAINDER
5052 H32	B-16101317	0.099	0.363	0.016	0.088	2.473	0.195	0.010	0.013	0.15	REMAINDER
5052 H32	B-16101323	0.051	0.174	0.003	0.019	2.607	0.193	0.006	0.021	0.15	REMAINDER
5052 H32	B-16101323	0.051	0.174	0.003	0.019	2.607	0.193	0.006	0.021	0.15	REMAINDER
5052 H32	B-16101324	0.065	0.215	0.004	0.061	2.614	0.193	0.008	0.022	0.15	REMAINDER
5052 H32	B-16101324	0.065	0.215	0.004	0.061	2.614	0.193	0.006	0.022	0.15	REMAINDER
5052 H32	B-16101326	0.087	0.351	0.022	0.089	2.495	0.167	0.016	0.010	0.15	REMAINDER
5052 H32	B-16101361	0.050	0.200	<0.010	0.010	2.570	0.210	0.010	0.020	0.15	REMAINDER
5052 H32	B-16101361	0.050	0.200	<0.010	0.010	2.570	0.210	0.010	0.020	0.15	REMAINDER
5052 H32	B-16101440	0.050	0.200	<0.010	0.020	2.500	0.210	0.010	0.020	0.15	REMAINDER
5052 H32	D1610035	0.086	0.369	0.030	0.060	2.300	0.173	0.046	0.013	0.15	REMAINDER
5052 H32	D1610035	0.086	0.369	0.030	0.060	2.300	0.173	0.040	0.013	0.15	REMAINDER
5052 H32	Z-1610Y5119	0.076	0.292	0.024	0.053	2.408	0.187	0.042	0.014	0.15	REMAINDER
5052 H32	Z-1610Y5124	0.082	0.315	0.021	0.075	2.474	0.169	0.016	0.014	0.15	REMAINDER
5052 H32	Z-1610Y5136	0.090	0.325	0.019	0.086	2.373	0.170	0.019	0.013	0.15	REMAINDER
5052 H32	Z-1610Y5139	0.084	0.350	0.021	0.061	2.313	0.177	0.021	0.014	0.15	REMAINDER
5052 H32	Z-1610Y5174	0.114	0.330	0.035	0.088	2.398	0.190	0.021	0.014	0.15	REMAINDER
5052 H32	Z-1610Y5202	0.087	0.306	0.017	0.066	2.406	0.170	0.012	0.014	0.15	REMAINDER
5052 H32	Z-1610Y5225	0.060	0.210	<0.01	0.020	2.650	0.230	0.010	0.020	0.15	REMAINDER
Alloy/Tmp	Lot No.	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	AI
STANDARD		0.4-0.8	0.7	0.15-0.4	0.15	0.8-1.2	0.04-0.35	0.25	0.15	0.15	REMAIN
6051 T6	Z-1610Y6073	0.665	0.351	0.277	0.061	1.067	0.196	0.007	0.035	0.15	REMAINDER
6051 T6	ZB-1610Y6101	0.593	0.360	0.253	0.058	1.063	0.188	0.007	0.037	0.15	REMAINDER

MECHANICAL PROPERTY											
Alloy/Tmp	Lot No.	Specs(in)	Tensile strength		Yield strength		Elongation				
			Mpa	Ksi	Mpa	Ksi	%				
3003 H14	A-1610694	.063*48°C	153	22.2	149	21.6	12				
3003 H14	A-1610718	.090*48°C	153	22.2	151	21.9	10				
3003 H14	A-1610721	.080*48°C	156	22.6	136	19.7	10				
3003 H14	A-1610750	.032*48°C	164	23.8	158	22.9	7				
3003 H22/H24	Z-1610YB166	.125*48°C	136	19.7	110	16.0	22				
3003 H22/H24	Z-1610YB196	.056*60°C	134	19.4	107	15.5	15				
3003 H22/H24	Z-1610YB299	.045*48°C	132	19.1	98	14.2	13				
5052 O	B-16101135	.057*45°C	107	16.5	57	8.3	26				
6052 H32	B-10101234	.063*48*120	217	31.5	162	23.5	10				
5052 H32	B-16101246	.125*00*144	217	31.5	186	27.3	12				
5052 H32	B-16101317	.040*48*30	240	34.8	192	27.0	10				
5052 H32	B-16101323	.063*48*120	215	31.2	174	25.2	12				
5052 H32	B-16101323	.063*48*96	215	31.2	174	25.2	12				
5052 H32	B-16101324	.090*48*120	217	31.5	162	23.5	12				
5052 H32	B-16101324050*48*96	217	31.5	162	23.5	12				
5052 H32	B-16101326	.080*48*120	227	32.9	193	29.0	10				
5052 H32	B-16101361	.063*48*120	216	31.3	172	24.3	12				
5052 H32	B-16101361	.063*48*96	216	31.3	172	24.0	12				
5052 H32	B-16101440	.125*48*120	218	31.6	166	24.1	13				
5052 H32	D1610035	.250*48*120	216	31.3	182	26.4	16				
5052 H32	D1610035	.250*48*96	216	31.3	182	26.4	16				
5052 H32	Z-1610Y5119	.063*60°C	240	34.8	197	28.6	10				
5052 H32	Z-1610Y5124	.063*60°C	231	33.8	188	27.3	13				
5052 H32	Z-1610Y5136	.063*60°C	237	34.4	185	26.8	11				
5052 H32	Z-1610Y5139	.090*60*120	230	33.4	198	28.7	11				
5052 H32	Z-1610Y5174	.125*60*120	234	33.9	192	27.8	13				
5052 H32	Z-1610Y5202	.125*48°C	219	31.8	172	24.9	12				
5052 H32	Z-1610Y5225	.080*60*120	233	33.0	198	28.4	10				

MILL TEST REPORT**TA CHEN INTERNATIONAL, INC.**

This MTR contains 3 pages (Page# 1)

Customer: RYEBRA PO#:788432 SO#:LRMY74

Item:..190489666176 Bundle:ZB-1610Y6101-6 Heat#:ZB-1610Y6101

MTR#:HECL2837.GIF

5051 T6	Z-1610Y6073	.125"60"144	343	49.7	315	45.7	11
6061 T6	ZB-1610Y6101	.190"48"96	328	47.6	246	35.7	13

PRODUCER: HENAN MINGTAI AL. INDUSTRIAL CO., LTD
COUNTRY OF MELT AND MANUFACTURE: CHINA

HENAN MINGTAI AL. INDUSTRIAL CO., LTD
河南明泰铝业股份有限公司



W 2753



BRIGHTSTEELS

LIMITED

MANUFACTURERS OF BRIGHT STEEL BARS

NORTON WORKS · MALTON · NORTH YORKSHIRE · ENGLAND · YO17 9BD

T: +44 (0) 1653 602122

F: +44 (0) 1653 695856

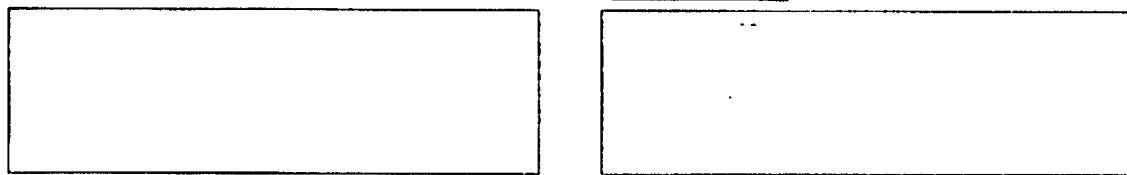
E: export@bright-steels.com

Certificate Of Analysis

Date : 22/02/2017

Number : 108633

VAT Registration No. 166 8255 35



UNLESS AGREED OTHERWISE THE MATERIAL DETAILED BELOW HAS BEEN INSPECTED AND
TESTED ACCORDING TO PROCEDURES RELATIVE TO OUR BS EN ISO 9001 REGISTRATION
TO COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND ORDER.
CONFORMS TO EN 10204 2.2. ORIGINAL CERTIFICATES ARE HELD ON FILE.

ORDER LINE	DESCRIPTION AND ORDER DETAILS	CAST NO.	BATCH NO	DESPATCH		
				WEIGHT	UOM	QUANTITY

YOUR ORDER NO. : B 97899

OUR ORDER NO. : 172235

BRIGHT MILD FLAT TO ASTM A29-03 (A108-99) 1018

IN 12'/12'3" LENGTHS

TARIFF NO. 7215.50.11

ITEM CODE - V731331

3	1/4" X 3/4"	3071118	PRD-11754701	1400	LBS	635 KGS					
CAST 3071118	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Cu %	Sn %	Al %
	0.155	0.235	0.802	0.012	0.012	0.121	0.060	0.204	0.227	0.009	0.020

Signed :

Eaton Steel Bar Company Inspection Certificate 1626286

EN 10204:2004-3.1

Customer	BOL	Ship Date	Customer PO	Item	Customer Item	Item Description
	207240	06-Mar-2017	B88205	11144 rev 003	V018242	3/4 HR RD 4140/42MM 20ft2in SSQ QT SF FG MST

All bundles listed below were produced using steel from Heat M52573 issued by GERDAU-MONROE and were completed from Eaton Steel Job 808632.

Chemistry	Description	Value	Units	Heat Treating	Description	Value	Units
C	Carbon	0.48000	PPMGT	TEMPER TEMP F	Temper Temp in Fahrenheit	500 - 2500	DEGF
Mn	Manganese	0.85000	PPMGT	AUSTEN TEMP F	Austenitize Temp in Fahrenheit	1600 - 1700	DEGF
P	Phosphorus	0.01000	PPMGT	SR TEMP F	Stress Relief Temp in Fahrenheit	500 - 2500	DEGF
S	Sulfur	0.02400	PPMGT	MAGNETISM-HT	Magnetism in Gauss	0 - 20	GN
Si	Silicon	0.25000	PPMGT	TIME AT TEMP	Time at Temperature	Report	-
Ni	Nickel	0.12000	PPMGT	QUENCH MEDIA	Quench Media Requirements	P&W/O	-
Cr	Chromium	0.96000	PPMGT	STRESS FREE	Cert stress free	CERTIFIED	-
Mo	Molybdenum	0.18000	PPMGT	HT4140-42QT	Quench & Temper	CONFORMS	-
Al	Aluminum	0.03000	PPMGT	Mill Processing	Description	Value	Units
Cu	Copper	0.17000	PPMGT	KELT COUNTRY	Melted in Country	USA	-
V	Vanadium	0.00200	PPMGT	ROLLED COUNTRY	Rolled in Country	USA	-
CB	Columbium	0.00200	PPMGT	RED RATIO	Reduction Ratio	81.50	RED
N	Nitrogen	0.00000	PPMGT	ASTM Standard	Description	Value	Units
P+S	Element Sum Limit	0.03400	PPMGT	A193/193M-01	Grade B7	CONFORMS	-
DI	Ideal Diameter	5.07000	IN	A434-90a-8C	ASTM A BC Tensile and Yield properties	CONFORMS	-
Cleanliness	Description	Value	Units	Structure	Description	Value	Units
MACRO ETCH	Report macro etch results.	.		PERCENT TM	Percent Tempered Martensite	80 - 100	PCT
Geometry	Description	Value	Units	MICROSTRUCTURE	Reported Microstructure	TM	-
DIMETER	Diameter	0.7420 - 0.7580	IN	Tag Number	Qty Units	Length	
Jominy	Description	Value	Units	022-1921471	3305 LBS	20ft	

ASTM A304

J1	1/16 inch from Quenched End	56	HRC
J2	2/16 inch from Quenched End	56	HRC
J3	3/16 inch from Quenched End	56	HRC
J4	4/16 inch from Quenched End	56	HRC
J5	5/16 inch from Quenched End	56	HRC
J6	6/16 inch from Quenched End	56	HRC
J7	7/16 inch from Quenched End	54	HRC
J8	8/16 inch from Quenched End	53	HRC
J9	9/16 inch from Quenched End	52	HRC
J10	10/16 inch from Quenched End	50	HRC
J11	11/16 inch from Quenched End	48	HRC
J12	12/16 inch from Quenched End	48	HRC
J14	14/16 inch from Quenched End	46	HRC
J16	16/16 inch from Quenched End	44	HRC
J18	18/16 inch from Quenched End	43	HRC
J20	20/16 inch from Quenched End	42	HRC
J22	22/16 inch from Quenched End	40	HRC
J24	24/16 inch from Quenched End	38	HRC
J26	26/16 inch from Quenched End	36	HRC
J32	32/16 inch from Quenched End	36	HRC
Mechanical	Description	Value	Units
TENSILE PSI	Tensile Strength in PSI Units	PSI	
YIELD PSI	Yield Strength in PSI Units	PSI	
ELONGATION	Percent Elongation	PCT	
REDUCTION	Percent Reduction in Area	PCT	
BRINELL SURF	Brinell Surface	286.0	BHN

Bundle tags with Eaton Steel identifiers reference the steel grade, heat, purchase order number, part number, product description and weight. Tested and certified in accordance with Eaton Steel's Quality Manual QM-00001 / Rev 3 / 2/26/13.

We hereby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Steel.

Created on 06-Mar-2017

Thomas Snabes, Corporate Metallurgist

The document was prepared by Eaton Steel Company
data prepared and is valid without limitation

10221 Capital Avenue, Oak Park, MI 48237 USA

Tel: 248-388-3434

http://www.eatonsteel.com

Fax: 248-398-1434

#1949



GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT		EATON PART NUMBER M52573	HOME OWNER NUMBER 283416 101	DATE 11/05/13
CUSTOMER ORDER NUMBER 142324	CUSTOMER PART NUMBER 1012462/4140EFVD			
EAG		Danie-71 Cast		

REPORT TO
DAN MCNAUGHTON
EATON STEEL CORPORATION
10221 CAPITAL
OAK PARK , MI 48237

9-88 EATON STEEL CORPORATION &
VULCAN HEAT TREATING
10 CROSSCREEK TRAIL
PELHAM , AL 35124

ORDERED		ITEM	
4140	3/4"	RND	20' 2"
CUSTOMER SPECIFICATIONS ITEM 1012462 REV 1 DTD 03/05/12; A29/A29M-12; A322-07			

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Sn	Al
0.40	0.85	0.010	0.024	0.25	0.12	0.96	0.18	0.17	0.008	0.030
V	Nb									
0.002	0.002									

GRAIN SIZE SPECIFICATION ASTM E112 FINE GRAIN 5-8

HARDENABILITY SPECIFICATION ASTM A255/A304

THEORETICAL
J1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32 34
56 56 56 56 56 56 54 53 52 50 48 46 44 43 42 40 38 36

DI CALCULATION SPECIFICATION CAT 1E0024

5.07

REDUCTION RATIO SPECIFICATION ITEM 1012462

RATIO= 81.5 TO 1.0

PAGE 1
We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

CONTINUED ON PAGE 2

Wendy J. Craig Wendy J. Craig
Quality Assurance Representative



GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT

CUSTOMER PART NUMBER	CUSTOMER PART NUMBER	HEAT NUMBER	HEAT ORDER NUMBER	DATE
142324	1012462/4140EFVD	M52573	283416 101	11/05/13

Daniel Cast

SHIP TO

REPORT TO
DAN MCNAUGHTON
EATON STEEL CORPORATION
10221 CAPITAL
OAK PARK, MI 48237

EATON STEEL CORPORATION &
VULCAN HEAT TREATING
10 CROSSEYK TRAIL
PELHAM, AL 35124

ORDERED

GRADE	SIZE	FINISH	TYPE	LENGTH
4140	0 3/4"	RND	20'	2"

CUSTOMER SPECIFICATIONS
ITEM 1012462 REV 1 DTD 03/05/12; A29/A29M-12; A322-07

RESIDUAL MAX SPECIFICATION ITEM 1012462

P+S = 0.0340

RESIDUAL MIN SPECIFICATION ITEM 1012462

P+S = 0.0340

ASTM E381 MACRO ETCH SATISFACTORY: S1/R1/C1; MEETS SAE J422
SS/05 RATING (WORST FIELD);
** MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC
ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT
BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED
TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT
TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION.
GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT
PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.

PAGE 2 OF 2

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Wendy J. Craig
Wendy J. Craig
Quality Assurance Representative

 <p>Vulcan Threaded Products 10 Cross Creek Trail Paden, AL 35124 Tel (205) 820-5100 Fax (205) 820-5150</p>		JOB MATERIAL CERTIFICATION		
Job No: 344313 Job Information Certified Date: 12/7/13				
Container: S7521276 S7525296				
Customer: Eaton Steel Corporation		Ship To: 20501 Trolley Industrial Drive Taylor, MI 48180		
Customer Part No: 1012483-001 Customer PO No: 143438-753733 Order No: 201403 Note: WD 753733 A		Shipped Qty: 16442 lbs Line No: 1		
Part Information				
Part No: HRB 4140 .750x240 Q&T ES Part Group: HT TOLL Place Weight: 30.059		Name: Hot Rod Bars Alloy Type: 4100 Alloy - Temper: 4140-		
Type: Heat Treat Heat Treat: ASTM A193 B7/ASME SA193 B7 Customer Specification:		Specification: 2012a	Rev: 1	Amend: 0
Test Results				
See following pages for tests				
Certified Chemical Analysis				
Note: Material was manufactured, tested and inspected in accordance with Vulcan Threaded Products Inc. Quality Assurance Program and Manual Rev. A, dated 9/23/11. Processed material is Quenched and Tempered - Stress Free. No weld repair performed on the material. No Mercury used in the production of this material. Metall and Manufactured in the USA Induction Heat Treated Average Gage Reading: <15 The microstructure consisted of 100% tempered martensite from the surface to the center. Austenizing temp. >1700 degrees F. Test specimens meet the ASTM A370-12a specifications				
Print Online 12/7/13 9:44 AM vulcan.com Page 1 of 2				

cert 377069

 <p>Vulcan Threaded Products 10 Cross Creek Trail Patterson, AL 35124 Tel (205) 620-5100 Fax (205) 620-5150</p>		JOB MATERIAL CERTIFICATION																											
Job No: 344313 Containers: S7521276 S7525298		Job Information			Certified Date: 12/7/13																								
Test Results																													
Test No: 25758 Test: Quench & Temper Physdata (Lbs) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Description</th> <th>Tensile (psi)</th> <th>Yield 0.2% Offset (psi)</th> <th>Elongation (%)</th> <th>Elongation Gage Length</th> <th>ROA</th> <th>Microhardness (HV0.05)</th> <th>Surface Hardness (HV0.05)</th> <th>Center Hardness (HRC)</th> <th>Note</th> </tr> </thead> <tbody> <tr> <td>Quench & Temper Physdata Results</td> <td>143,200</td> <td>128,700</td> <td>17.4</td> <td>40</td> <td>63</td> <td>31</td> <td>30</td> <td></td> <td></td> </tr> </tbody> </table>										Description	Tensile (psi)	Yield 0.2% Offset (psi)	Elongation (%)	Elongation Gage Length	ROA	Microhardness (HV0.05)	Surface Hardness (HV0.05)	Center Hardness (HRC)	Note	Quench & Temper Physdata Results	143,200	128,700	17.4	40	63	31	30		
Description	Tensile (psi)	Yield 0.2% Offset (psi)	Elongation (%)	Elongation Gage Length	ROA	Microhardness (HV0.05)	Surface Hardness (HV0.05)	Center Hardness (HRC)	Note																				
Quench & Temper Physdata Results	143,200	128,700	17.4	40	63	31	30																						
Test No: 25757 Test: Quench & Temper Information (Lbs) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Description</th> <th>Tempering Temp. (F)</th> <th>Rate Speed (F/min)</th> <th>Quench Water Temp. (F)</th> <th>Note</th> </tr> </thead> <tbody> <tr> <td>Quench & Temper Information Results</td> <td>1314</td> <td>43.50</td> <td>91.9</td> <td></td> </tr> </tbody> </table>										Description	Tempering Temp. (F)	Rate Speed (F/min)	Quench Water Temp. (F)	Note	Quench & Temper Information Results	1314	43.50	91.9											
Description	Tempering Temp. (F)	Rate Speed (F/min)	Quench Water Temp. (F)	Note																									
Quench & Temper Information Results	1314	43.50	91.9																										
 Chmielewski, David - Supervisor Date: 12/7/13																													
Printed On 12/7/13 8:44 AM vulc.com Page 2 of 2																													

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T681.0006.000
 DATE: 11.11.19

PO / BATCH NO.: 03425/SD00416

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20
 QUANTITY INSPECTED: 20
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000"
 THICKNESS RECEIVED: 1.000"
 SHEET SIZE ORDERED: 1/4A
 SHEET SIZE RECEIVED: 1/4A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> <input type="radio"/> (N)	
CORRECT FINISH	<input checked="" type="radio"/> <input type="radio"/> (Y)	N
CORROSION	<input checked="" type="radio"/> <input type="radio"/> (N)	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> <input type="radio"/> (Y)	N
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> <input type="radio"/> (Y)	N <u>ASYM B221</u>
CORRECT THICKNESS	<input checked="" type="radio"/> <input type="radio"/> (Y)	N
PHOTO REQUIRED	<input checked="" type="radio"/> <input type="radio"/> (Y)	(N)
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> <input type="radio"/> (Y)	N <u>SD00413</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> <input type="radio"/> (Y)	N
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> <input type="radio"/> (Y)	N
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> <input type="radio"/> (Y)	(N)
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> <input type="radio"/> (Y)	(N)

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>11.11.19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHAT'S CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20^{pcs} FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2,...) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

1.000 X 2.000

DAS

9

9-00

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES

"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03
[Signature]

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)		CP	09.07.13
A	NEW ISSUE		DS	01.06.08
REV.	DESCRIPTION		BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	<i>[Signature]</i>	DRAWING NO.	REV. B	
CHECKED	<i>[Signature]</i>	M6061T6B	SHEET 1 OF 1	
MFG. APPR.	<i>[Signature]</i>	TITLE	SCALE	
APPROVED	<i>[Signature]</i>	6061-T6 BAR	NTS	
DE APPR.	<i>[Signature]</i>	DATE	09.07.13	

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NOT TO BE USED FOR ANY PURPOSE OR DISCLOSED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H6061T6B2.000X1.250
 DATE: 01.11.16

PO / BATCH NO.: 034245 / 5008419

MATERIAL CERT REC'D: Y OS
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250"
 THICKNESS RECEIVED: 1.250"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> <input type="checkbox"/> <u>(N)</u>	
CORRECT FINISH	<input checked="" type="checkbox"/> <input type="checkbox"/> <u>(Y)</u> <u>N</u>	
CORROSION	<input checked="" type="checkbox"/> <input type="checkbox"/> <u>(Y)</u> <u>(N)</u>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> <input type="checkbox"/> <u>(Y)</u> <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> <input type="checkbox"/> <u>(Y)</u> <u>N</u>	<u>AMS. QQ-A-202/8</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> <input type="checkbox"/> <u>(Y)</u> <u>N</u>	
PHOTO REQUIRED	<input checked="" type="checkbox"/> <input type="checkbox"/> <u>(Y)</u> <u>(N)</u>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> <input type="checkbox"/> <u>(Y)</u> <u>N</u>	<u>AT# 3B5790</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> <input type="checkbox"/> <u>(Y)</u> <u>N</u>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> <input type="checkbox"/> <u>(Y)</u> <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> <input type="checkbox"/> <u>(Y)</u> <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> <input type="checkbox"/> <u>(Y)</u> <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> <u>3.50</u>	SIGNED OFF BY: _____
DATE: <u>17.11.16</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK.
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note **Aluminum material only**

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

2.000 X 12.50

DAS
9
9.89

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |
 THICK | WIDTH |

WHERE "T.TTT" = THICKNESS IN INCHES
 "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
 2009-09-03
 MJD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2N D7-1)		CP	09.07.13
A	NEW ISSUE		DS	01.06.08
REV.	DESCRIPTION		BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	DS			
CHECKED	DS			
MFG. APPR.	DS	DRAWING NO. M6061T6B		REV. B SHEET 1 OF 1
APPROVED	DS	TITLE 6061-T6 BAR		SCALE NTS
DE APPR.	DS			
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT CONTAINS TRADE SECRET INFORMATION AND IS SUPPLIED ON A CONFIDENTIAL BASIS. IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606176B1.S00X2.000
 DATE: 17.11.16

PO / BATCH NO.: 038285 / 8008417

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500 "
 THICKNESS RECEIVED: 1.500 "
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	(Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<u>AMS- QQ-A-202/3</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<u>47# 3B5189</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>Q4S</u> <u>g</u>	SIGNED OFF BY: _____
DATE: <u>17.11.16</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIRMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVIED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIRMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIRMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVIED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC CORRDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR ~~AMS-QQ-A-200/8~~ (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH |

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

1.500X2.00

948
9
940

RELEASED
2009-09-03
M

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)			CP	09.07.13
A	NEW ISSUE			DS	01.06.08
REV.	DESCRIPTION			BY	DATE
DESIGN	DS	DART AEROSPACE LTD			
DRAWN	99	HAWKESBURY, ONTARIO, CANADA			
CHECKED	RJS	DRAWING NO.	REV. B		
MFG. APPR.	MM	M6061T6B	SHEET 1 OF 1		
APPROVED	MM	TITLE	SCALE		
DE APPR.	MM	6061-T6 BAR	NTS		
DATE	09.07.13	COPRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS NOT TO BE USED FOR ANY PURPOSE, OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061768.133
 DATE: 17.11.16

PO / BATCH NO.: 10035285/5003427

MATERIAL CERT REC'D: YOS
 QUANTITY RECEIVED: 30'
 QUANTITY INSPECTED: 32'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .133
 THICKNESS RECEIVED: .133
 SHEET SIZE ORDERED: 4x8'
 SHEET SIZE RECEIVED: 4x8'

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/>	N
CORROSION	Y <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/>	N
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/>	N <u>QMS-QQ A-250</u>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/>	N
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/>	N <u>HT# 2B160Y6101</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/>	N
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/>	N
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>8</u>	SIGNED OFF BY: _____
DATE: <u>17.11.16</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2,...) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

8 7 6 5 4 3 2 1

D

D

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/1
OR AMS 4025 OR AMS 4027
OR ASTM B209



189
DAS

9

9-09

PART NUMBER: M6061T6S | XXX |
THK |

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT

C

C

B

B

RELEASED
2009-09-10

B	REFORMAT DWG, ADD B209 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>AP</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>AP</i>	REV. B	
CHECKED	<i>AP</i>	DRAWING NO.	
MFG. APPR.	<i>AP</i>	M6061T6S	SHEET 1 OF 1
APPROVED	<i>AP</i>	TITLE	SCALE
DE APPR.	<i>AP</i>	6061-T6 SHEET SPEC	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

8 7 6 5 4 3 2 1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H601T6S.030
 DATE: 11.11.16

PO / BATCH NO.: 10034285/5003426

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 35
 QUANTITY INSPECTED: 32
 QUANTITY REJECTED: 9

THICKNESS ORDERED: .080
 THICKNESS RECEIVED: .030
 SHEET SIZE ORDERED: 4'X8'
 SHEET SIZE RECEIVED:

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	AMS-QQ-250
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	HT# 358972
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> <u>9-88</u>	SIGNED OFF BY: _____
DATE: <u>11.11.16</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note **Aluminum material only**

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN **20pcs** FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2,...) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

8 7 6 5 4 3 2 1

SPECIFICATION CONTROL DRAWING

D

D

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

.060

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

DAS

PART NUMBER: M6061T6S | XXX |
THK |

9

9-00

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: XXX BY 4FT BY 8FT

C

C

B

B

RELEASED
2009-09-10

MAP

B	REFORMAT DWG, ADD B209 SPEC (ZN D8-1), REF PAR 08-020A	CP	0907.13
A	NEW ISSUE	DS	0106.08
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>SP</i>	DART AEROSPACE LTD	
DRAWN	<i>SP</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>1</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>SP</i>	M6061T6S	SHEET 1 OF 1
APPROVED	<i>SP</i>	TITLE	SCALE
DE APPR.	<i>SP</i>	6061-T6 SHEET SPEC	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS NOT TO BE USED FOR ANY PURPOSE, OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

8

7

6

5

4

3

2

1

A

A

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1021TLR1.00D
 DATE: 17/11/16

PO / BATCH NO.: 38285/5008424

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 40
 QUANTITY INSPECTED: 40
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.00
 THICKNESS RECEIVED: 1.00
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<u>ASTM B221</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<u>HEAT # 36585</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<u>M1021TLR1.00D</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<u>5008424</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>dk</u>	SIGNED OFF BY: _____
DATE: <u>17/11/16</u>	DATE: _____

Attach this Inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIRMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVIED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN **20pcs** FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIRMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIRMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVIED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC CORRDINATOR BEFORE GOING FURTHER

8

7

6

5

4

3

2

1

SPECIFICATION CONTROL DRAWING

D

D

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R[D.DDD]
 [DIA.]

WHERE "D.DDD" = DIAMETER IN INCHES
 EG. 5/8" ROUND BAR = M6061T6R0.625

R1.00 and 1711/16

C

C

B

B

A

A

RELEASED
 2009-09-09
 MHD

B	REFORMAT DWG, ADD B211&B221 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>st</i>	DART AEROSPACE LTD	
DRAWN	<i>st</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>st</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>st</i>	M6061T6R	SHEET 1 OF 1
APPROVED	<i>st</i>	TITLE	NTS
DE APPR.	<i>st</i>	6061-T6 ROUND BAR	
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6BO.750x200
 DATE: 7.11.19

PO / BATCH NO: 033235/45008421

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20
 QUANTITY INSPECTED: 20
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750"
 THICKNESS RECEIVED: .750"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	Y <u>(N)</u>	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	Y <u>(N)</u>	
CORRECT MATERIAL PER M-DRAWING	Y <u>(N)</u>	ASTM B221
CORRECT THICKNESS	Y <u>(N)</u>	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	Y <u>(N)</u>	70630
CORRECT MATERIAL IDENTIFICATION	Y <u>(N)</u>	
CORRECT M# ON THE MATERIAL	Y <u>(N)</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>8</u>	SIGNED OFF BY: _____
DATE: <u>7.11.19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B0.750X1.000
 DATE: 17.11.19

PO / BATCH NO.: 084285 / 3008422

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20
 QUANTITY INSPECTED: 20
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750'
 THICKNESS RECEIVED: .750'
 SHEET SIZE ORDERED: 11A
 SHEET SIZE RECEIVED: 11A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	AMS-QQ-A-200/3
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	362323
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> <u>99</u>	SIGNED OFF BY: _____
DATE: <u>17.11.19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIRMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVIED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIRMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIRMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVIED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC CORRDINATOR BEFORE GOING FURTHER

8 7 6 5 4 3 2 1

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

750

RELEASED
2009-09-03
M

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)		CP	09.07.13
A	NEW ISSUE		DS	01.06.08
REV.	DESCRIPTION			BY DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	PP	DRAWING NO.	M6061T6B	REV. B
CHECKED	RJS	TITLE	6061-T6 BAR	SCALE NTS
MFG. APPR.	M	DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD

8 7 6 5 4 3 2 1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H606176P0625
 DATE: 17.11.19

PO / BATCH NO.: 032005 / 8008423

MATERIAL CERT REC'D: Y OS
 QUANTITY RECEIVED: 20
 QUANTITY INSPECTED: 20
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .625"
 THICKNESS RECEIVED: .625"
 SHEET SIZE ORDERED: 1/4
 SHEET SIZE RECEIVED: 1/4

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM B201
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	66092
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DR. G. A.</u>	SIGNED OFF BY: _____
DATE: <u>17.11.19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHAT'S CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2,...) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

8 7 6 5 4 3 2 1

SPECIFICATION CONTROL DRAWING

D

D

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR



SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

b6S

PART NUMBER: M6061T6R|D.DDD|
| DIA. |

44S
9
9.60

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6R0.625

C

C

B

B

A

A

RELEASED
2009-09-09
JAD

B	REFORMAT DWG, ADD B211& B221 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION		
DESIGN	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN			
CHECKED			
MFG. APPR.	DRAWING NO. M6061T6R		
APPROVED	REV. B TITLE 6061-T6 ROUND BAR		
DE APPR.	SCALE NTS		
DATE	09.07.13		
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8 7 6 5 4 3 2 1

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H6061TB1250
 DATE: 17.11.19

PO / BATCH NO.: 038235/3008405

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 40
 QUANTITY INSPECTED: 40
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250"
 THICKNESS RECEIVED: 1.250"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM B201
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	68467
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>8</u>	SIGNED OFF BY: _____
DATE: <u>17.11.19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIRMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVIED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIRMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIRMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVIED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC CORRDINATOR BEFORE GOING FURTHER

8 7 6 5 4 3 2 1

SPECIFICATION CONTROL DRAWING

D

D

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221



PART NUMBER: M6061T6R|D.DDD|
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

1.250

045
9
S.625

C

C

B

B

A

A

RELEASED
2009-09-09
MAP

B	REFORMAT DWG. ADD B211& B221 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>SL</i>	DART AEROSPACE LTD	
DRAWN	<i>DP</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>PP</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>PP</i>	M6061T6R	SHEET 1 OF 1
APPROVED	<i>JMN</i>	TITLE	SCALE
DE APPR.	<i>JMN</i>	6061-T6 ROUND BAR	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

8 7 6 5 4 3 2 1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H4140HRC.750
 DATE: 17.11.21

PO / BATCH NO.: 10038285/5008429

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 6
 QUANTITY INSPECTED: 6
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750"
 THICKNESS RECEIVED: .745"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	ASTM A364
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	152573
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>JD</u>	SIGNED OFF BY: _____
DATE: <u>17.11.21</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIRMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIRMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIRMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC CORRDINATOR BEFORE GOING FURTHER

DART

DESIGN <i>RF</i>	DRAWN BY <i>RF</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>RF</i>	APPROVED <i>RF</i>	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 05.02.21		TITLE 4140 ROUND BAR	SCALE 1:1
A	05.02.21	NEW ISSUE	

750 DAS
9
9-80

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02 -A-434-BC /

-A193-03- GRADE-B7 / -A29-03 / -A322-91 OR

UNS # - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 ksi

MINIMUM YIELD TENSILE STRENGTH = 66 ksi

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES
 | DIA. |

EG. $\frac{7}{8}$ " ROUND BAR = M4140H-R 0.875

RELEASED
05.03.25 *RF*

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018B1.000X1.000
 DATE: 17/11/17

PO / BATCH NO.: 38285/S008424

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 6
 QUANTITY INSPECTED: 6
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.00
 THICKNESS RECEIVED: 1.00
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

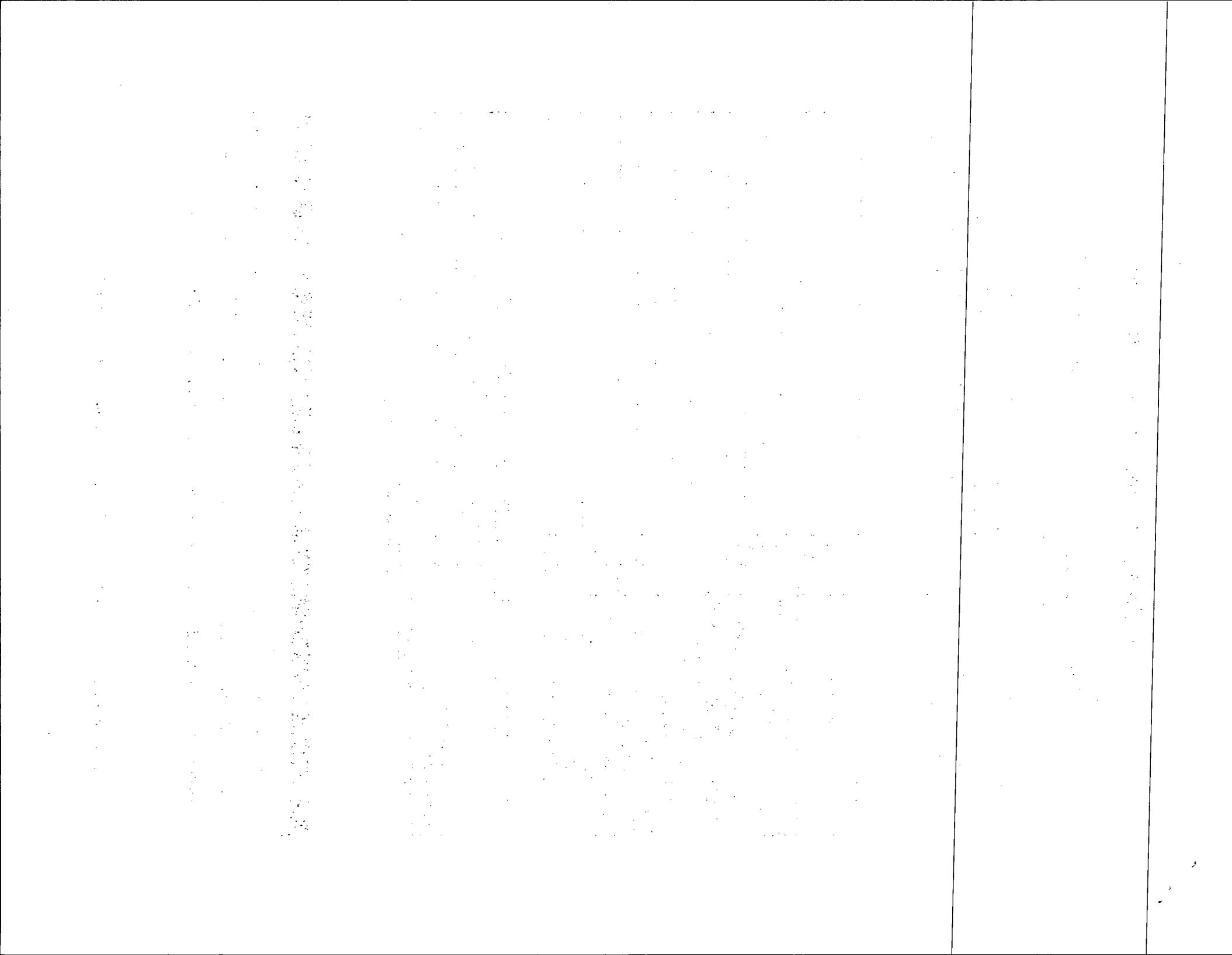
DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> N	
CORRECT THICKNESS	<u>Y</u> <u>N</u>	
PHOTO REQUIRED	<u>Y</u> <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	HEAT # 306182
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	M1018B1.000X1.000
CORRECT M# ON THE MATERIAL	<u>Y</u> N	S008424
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>SNL</u>	SIGNED OFF BY: _____
DATE: <u>17/11/17</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DART

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO.	REV. A
CP		M1010-B	SHEET 1 OF 1
DATE		TITLE	
01.12.06		AISI 1010-1025 BAR	
		SCALE NTS	
A	01.12.06	NEW ISSUE	

PURCHASE MATERIAL: AISI 1010-1025 OR ASTM A36 /A366 /A569 /A570
OR CSA G40-21, 38W/44W/50W/60W/70W

PART NUMBER: M1010-B | T. TTT | X | WW. WWW | WHERE T.TTT = THICKNESS (IN INCHES)
THICK | | WIDTH | WWW = WIDTH (IN INCHES)

EG. 0.75" X 250" BAR = M1010-B 0.750 X 02.500

RELEASED
01.12.07

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H1001TB1.500X4.000
 DATE: 17.11.16

PO / BATCH NO.: 038285/SD08413

MATERIAL CERT REC'D: gos
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500"
 THICKNESS RECEIVED: 1.500"
 SHEET SIZE ORDERED: U/A
 SHEET SIZE RECEIVED: U/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<u>AMS-QQ-A-200/8</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<u>H7-201704803</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u>	SIGNED OFF BY: _____
DATE: <u>17.11.16</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2,...) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

B

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |
 THICK | WIDTH |

1.500X4.000

DAS
 9
 9.80

WHERE "T.TTT" = THICKNESS IN INCHES
 "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
 2009-09-03
[Signature]

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)		CP	09.07.13
A	NEW ISSUE		DS	01.06.08
REV.	DESCRIPTION		BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	<i>[Signature]</i>	DRAWING NO.	M6061T6B	REV. B
CHECKED	<i>[Signature]</i>	APP'D		SHEET 1 OF 1
MFG. APPR.	<i>[Signature]</i>	APPROVED	<i>[Signature]</i>	TITLE
DE APPR.	<i>[Signature]</i>	DATE	09.07.13	SCALE NTS

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FCK-1b

Flat CR 1x6

46961



EAGLE BAR INC.

3719 S. Kedzie Ave.
Chicago, Illinois 60632
800-621-6126
In Ill. Call (773) 847-5382
(773) 847-5287

Inspection No.: 2010995 Page

Date: 01-25-2016 of 2

COLD FINISHED STEEL TEST CERTIFICATE

Customer: LES ACIERS TRANSBEC(1997)
LTD

LAVAL, QUEBEC ()

Delivery Note: 18346

P.O. No.	Shape	Size	Quality	Lbs.	Remarks
1 CA-44099	RD	1 1/4 "(1,2496"-1,2492")	12L14	2,222	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
2 CA-44099	FLAT	1" x 2"	SAE1018	2,458	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
3 CA-44099	RD	2 1/2 "(2,5000"-2,4976")	SAE1018	2,227	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
4 CA-44099	RD	4" (4,0000"-3,9961")	SAE1018	2,438	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
5 CA-44099	SQ	1 1/8 "()	SAE1018	2,388	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
6 CA-44099	SQ	" "()	SAE1018	2,637	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
7 OU-45163	FLAT	1/2" x 5"	SAE1018	2,449	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
8 OU-45163	FLAT	1/2" x 6"	SAE1018	2,445	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
9 OU-45163	FLAT	1/2" x 8"	SAE1018	2,427	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
10 OU-45163	FLAT	3/4" x 6"	SAE1018	2,401	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
11 OU-45163	FLAT	3/4" x 8"	SAE1018	2,423	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
12 OU-45163	FLAT	1" x 5"	SAE1018	2,668	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
13 OU-45163	FLAT	1" x 6"	SAE1018	2,458	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
14 OU-45163	FLAT	1" x 8"	SAE1018	2,284	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
15 OU-45163	FLAT	2" x 2 1/2"	SAE1018	2,469	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
16 OU-45163	FLAT	2" x 3"	SAE1018	2,227	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
17 OU-45163	FLAT	2" x 4"	SAE1018	2,304	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
18 OU-45163	RD	1 1/8 "(1,1244"-1,1240")	SAE1018	2,072	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
19 OU-45163	SQ	1 1/4 "(0,0000"-0,0000")	SAE1018	2,787	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
20 OU-45163	SQ	2 1/2 "(0,0000"-0,0000")	SAE1018	2,831	ACCORDING TO NORM ASTM A-108-13 LEVEL 1

Chemical Composition According to EN 10204-2.2

Heat No.	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%Mo	%Pb	%Al	%Cu	%N	%Sn	%Ti
1 110640	0.068	0.012	1.150	0.048	0.285	0.022	0.027	0.009	0.282	0.003	0.044			
2 CE579934	0.160	0.160	0.730	0.013	0.016	0.090	0.120	0.017		0.004	0.330	0.011	0.016	
3 888562	0.166	0.273	0.799	0.009	0.026	0.067	0.024	0.007		0.026	0.027	0.005		
4 888562	0.166	0.273	0.799	0.009	0.026	0.067	0.024	0.007		0.026	0.027	0.005		
5 CE572896	0.160	0.160	0.730	0.009	0.017	0.070	0.050	0.014		0.003	0.210	0.012	0.007	
6 40204	0.155	0.210	0.760	0.022	0.017	0.160	0.080	0.020		0.012	0.160		0.009	
-7 3067060	0.162	0.195	0.779	0.012	0.014	0.092	0.176	0.045		0.019	0.233		0.009	
-8 CE577933	0.160	0.170	0.750	0.012	0.013	0.070	0.110	0.018		0.003	0.240	0.012	0.011	
-9 3066237	0.150	0.221	0.804	0.011	0.006	0.135	0.170	0.064	0.001	0.016	0.193		0.012	
-10 CE578591	0.160	0.150	0.740	0.013	0.020	0.070	0.100	0.025		0.003	0.210	0.013	0.009	
-11 3066236	0.152	0.211	0.801	0.008	0.006	0.094	0.122	0.038	0.001	0.016	0.193		0.013	
-12 3067061	0.156	0.183	0.787	0.011	0.016	0.109	0.180	0.053		0.018	0.229		0.009	
-13 3066812	0.150	0.174	0.754	0.007	0.009	0.142	0.164	0.062	0.001	0.017	0.191		0.008	
-14 3066267	0.156	0.236	0.826	0.010	0.007	0.147	0.166	0.044	0.001	0.018	0.273		0.012	
-15 3064756	0.155	0.213	0.776	0.011	0.008	0.088	0.150	0.037		0.018	0.220		0.010	0.003
-16 3063925	0.155	0.211	0.787	0.024	0.005	0.219	0.221	0.065		0.018	0.208		0.009	0.005
-17 3065409	0.158	0.201	0.727	0.008	0.009	0.132	0.202	0.057		0.018	0.233		0.010	0.004
-18 109543	0.160	0.126	0.715	0.010	0.010	0.073	0.070	0.008		0.003	0.146	0.009		
-19 V37878	0.163	0.252	0.773	0.011	0.004	0.113	0.215	0.049		0.025	0.287		0.014	
20 41718	0.165	0.230	0.800	0.015	0.011	0.150	0.070	0.010		0.012	0.160		0.008	0.002

STEEL FREE OF MERCURY AND ANY RADIOACTIVE SUBSTANCES

Quality Management



EAGLE BAR INC.

3719 S. Kedzie Ave.
Chicago, Illinois 60632
800-621-6126
In Ill. Call (773)847-5382
(773)847-5287

Inspect. N.: 2010995 Page

Date: 01-25-2016 2 of 2

COLD FINISHED STEEL TEST CERTIFICATE

Customer: LES ACIERS TRANSBEC(1997)
LTEE

LAVAL, QUEBEC ()

Delivery Note: 18346

P.O.No.	Shape	Size	Quality	Lbs.	Remarks
21 OU-45163	SQ	3" (0,0000"-0,0000")	SAE1018	2,595	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
22 OU-45163	SQ	4" ()	SAE1018	2,639	ACCORDING TO NORM ASTM A-108-13 LEVEL 1

Chemical Composition According to EN 10204-2.2

Heat N°.	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%Mo	%Pb	%Al	%Cu	%N	%Sn	%Ti
21 41626	0.165	0.220	0.710	0.015	0.021	0.090	0.070	0.010	0.011	0.180	0.011	0.002		
22 40204	0.155	0.210	0.760	0.022	0.017	0.160	0.080	0.020	0.012	0.160	0.009			

STEEL FREE OF MERCURY AND ANY RADIOACTIVE SUBSTANCES

Quality Management

PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
DCI001-C		2	1	Net 30	M2024T3S.03	2024-T3 .032 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-2504 OR AMS-QQ-A-2504 OR AMS 4037 OR ASTM B209 receive sf				48	11/13/2017	48		S009810	Stock	11/14/2017	\$ 4.48 / sf	0	\$215.00	Acier Ouellett Inc.	
		7			M6061T6B2.000X03.500	6061-T6 Bar 2.00 X 3.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft			Heft!		6		6		S009811	Stock	11/14/2017	\$ 40.70 / ft	0	\$244.20	Acier Ouellett Inc.
		14			M6061T6R8.250	6061-T6 Round Bar 3.250" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft					36		36		S009812	Stock	11/14/2017	\$ 30.77 / ft	0	\$1,107.85	Acier Ouellett Inc.
		15			M6061T6S.020	6061-T6 Sheet .020 : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				48		48		S009813	Stock	11/14/2017	\$ 1.74 / sf	0	\$83.37	Acier Ouellett Inc.	
		17			M6061T6S.063	6061-T6 .063 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				64		64		S009814	Stock	11/14/2017	\$ 2.76 / sf	0	\$176.42	Acier Ouellett Inc.	
		20			M304B1.000X1.000	304 Bar 1.00 X 1.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				24		23		S009815	Stock	11/14/2017	\$ 13.46 / ft	0	\$309.77	Acier Ouellett Inc.	
		21			M303P0.500	303 Round Bar 0.500" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE receive ft				48		50		S009816	Stock	11/14/2017	\$ 1.97 / ft	0	\$98.70	Acier Ouellett Inc.	
										Total:	274	275								\$1,756.01	

**DELIVERY - CLIENT****Copy** CO00060831**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route

5

Customer №

CLI0001056

Date

2017/11/07

Delivery date

2017/11/14

Your order №

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

1

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only					
					CMD	EXP	B/O	IN	I	S	C	OUT	
1	ROUND SS 3/4 17-4PH NS RSS-34174 9268 2 X 12' HEAT: AC11066-JG-13/11	36.05	24.00	PI_\$CLB			2x						
2	ALU SHEET .032 (20G) 2024-T3 (4 X 12) BARE FEAL-0324122024 3093 1 X 4' X 12' HEAT: AC11063-SA-13/11	21.65	48.00	PI2_\$CLB			1x						
3	ALU PLATE 2 6061-T651 RANDOM PAL-26061-V 7470 1 X 3 1/2" X 72" HEAT	57.28	2.00	PI2_\$CLB			1x						

NIR : R-109516-6

2017-11-14

Next Page...

**DELIVERY - CLIENT****Copy** CO00060831**ACIER OUELLETTE INC.**

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M**Delivery Route** 5**Customer N°**

CLI0001056

Date

2017/11/07

Delivery date

2017/11/14

Your order N°

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Termes

Net 30 Days

Page

2

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only					
					CMD	EXP	B/O	IN	I	S	C	OUT	
	COUPE A LA SCIE SCIE 1		1.00	UN									
	<i>MATERIEL DOIT ETRE STAMPER</i>												
4	ROUND ALU 3 1/4 6061-T6 RANDOM RAL-314-V 5152	350.64	36.00	PI_ \$CLB				3x					
	<i>3 X 12' HEAT: AC11063-SA-13/11</i>							12'					
5	ALU SHEET .020 (24G) 6061-T6 (4 X 12) FEAL-0204126061 3048	13.54	48.00	PI2_ \$CLB				1x					
	<i>1 X 4' X 12' HEAT MATERIEL DOIT ETRE STAMPER</i>							4x12'					

NIR : R-109516-6

SP 11/14

Next Page...

**DELIVERY - CLIENT****Copy** CO00060831**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M**Delivery Route** 5**Customer N°**

CLI0001056

Date

2017/11/07

Delivery date

2017/11/14

Your order N°

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

3

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
6	ALU SHEET .040 (18G) 6061-T6 RANDOM FEAL-0406061-V 3131 3 X 4' X 12' HEAT	81.07	144.00	PI2_\$CLB				3X				
7	ALU SHEET .064 (14G) 6061-T6 (4 X 8) FEAL-064486061 3175 2 X 4' X 8' HEAT	57.66	64.00	PI2_\$CLB				2X				
8	SQUARE SS 1 SS304 RANDOM CSS-1-V 2085 2 X 12' R/L HEAT	81.60	24.00	PI_\$CLB				1X13"				
9	ROUND SS 1/2 303 RANDOM RSS-12303-V 5727 4 X 12' HEAT AC11066-JG-13/11	32.02	48.00	PI_\$CLB				4X				

NIR : R-109516-6

RP-11-14

Next Page...



DELIVERY - CLIENT

Copy CO00060831

ACIER OUELLETTE INC.

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N°

CLI0001056

Date

2017/11/07

Delivery date

2017/11/14

Your order N°

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Termes

Net 30 Days

Page

4

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT

Total Weight (Lbs) : 731.51

NIR : R-109516-6

Conditions :

All sold and delivered materials remain the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :
<i>Mph/Am</i>	

Delivered By :	Time

Customer's Signature	Y	M	D

Total (\$CAD)

**DELIVERY - USINE****Copy CO00060831****ACIER OUELLETTE INC.**

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2017/11/07

Delivery date

2017/11/14

Your order N°

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

1

Instruction F-M

Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ROUND SS 3/4 17-4PH NS RSS-34174 9268	36.05	24.00	PI-\$CLB								
2 X 12' HEAT: AC11066-JG-13/11											
2 ALU SHEET-.032 (20G) 2024-T3 (4 X 12) BARE FEAL-0324122024 3093	21.65	48.00	PI2-\$CLB								
1 X 4' X 12' HEAT: 37876 AC11063-SA-13/11											
3 ALU PLATE 2 6061-T651 RANDOM PAL-26061-V 7470	57.28	2.00	PI2-\$CLB								
1 X 3 1/2" X 72" HEAT: 70175749 / s37055730											

NIR : R-109516-6

Next Page...

**DELIVERY - USINE****Copy** CO00060831**ACIER OUELLETTE INC.**

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N° CLI0001056

Date 2017/11/07

Delivery date 2017/11/14

Your order N° 38285

Processed by Josianne Bourdon

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 2

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
COUPE A LA SCIE SCIE 1		1.00	UN								
MATERIEL DOIT ETRE STAMPER											
4 ROUND' ALU 3 1/4 6061-T6 RANDOM RAL-314-VB 5152	350.64	36.00	PI-\$CLB								
3 X 12' HEAT: 223825B1 ACI1063-SA-13/11											
5 ALU SHEET .020 (24G) 6061-T6 (4 X 12) FEAL-0204126061 3048	13.54	48.00	PI2-\$CLB								
1 X 4' X 12' HEAT: 68424/01/00 MATERIEL DOIT ETRE STAMPER											

NIR : R-109516-6

Next Page...

DELIVERY - USINE

Copy CO00060831

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext: 800-667-4248
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Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CLI0001056
Date 2017/11/07
Delivery date 2017/11/14
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days

Instruction F-M

Delivery Route 5

Page 3

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
6 ALU SHEET .040 (18G) 6061-T6 RANDOM FEAL-0406061-V 31313121	81.07	144.00	PI2_SCLB								
3 X 4' X 12' HEAT:											
7 ALU SHEET .064 (14G) 6061-T6 (4 X 8) FEAL-064486061 3175	57.66	64.00	PI2_SCLB								
2 X 4' X 8' HEAT 61011/01/00											
8 SQUARE SS 1 SS304 RANDOM CSS-1-V 2085	81.60	24.00	PI_SCLB								
2 X 12' R/L HEAT:269432											
9 ROUND SS 1/2 303 RANDOM RSS-12303-V 5727	32.02	48.00	PI_SCLB								
4 X 12' HEAT AC11066-JG-13/11											

NIR : R-109516-6

Next Page...

#7470

2195

MILL TEST CERTIFICATE	No: 15063 Date: 6/29/2017	CERTIFIED SRAC-IQNet ISO 9001/2008 No.10/Valid 2017	vimetco alro SLATINA
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CUSTOMER : OLBERT METAL SALES LIMITED

CONTRACT/ORDER : 2195
 BILL OF DELIVERY : 80325427
 TRUCK/CONTAINER : GSTU 6265152

MATERIAL : ALUMINIUM PLATES
 ALLOY : 6061
 LOT/DIMENSIONS (mm) : **70175749** 2"THX48.5"WDX144.5"LT

TEMPER: T651

ACCORDING TO : ASTM B209; AMS 4027N; ANSI H35.2; ASME SB209; **AMS-QQ-A-250/11**

ACTUAL MECHANICAL PROPERTIES			1 MPa = 1 N/mm ² = 0.145 ksi = 0.102 kgf/mm ²									
Specified values:	1 lbs = 0.4536 kg		UTS KSI	YTS KSI								
			min. max.	min. max.								
			42	35								
LOT / BATCH	CASE	NET WEIGHT lbs	Measured values:									
70175749 S37055730	546549;546551	5,560.063	48 48.2	41.7 41.5								
				14.5 13								
ACTUAL CHEMICAL ANALYSIS %												
BATCH	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Al
S37055730	0.72	0.58	0.25	0.12	0.98	0.17	0.012	0.04	0.014	0.009	0.016	REM.
												REM.
Acc. punctus	Min.	0.4	0.15	0.8	0.04							REM.
	Max.	0.8	0.7	0.4	0.15	1.2	0.35	0.05	0.25	0.15	0.05	0.05
Remarks:					Others- Each- Max.: 0.05	Others Total- Max.: 0.15						

REMARKS:

ACCORDING TO: ASTM B209:2014; AMS 4027N:2008; ANSI H35.2:2013; ASME SB209:2015; AMS-QQ-A-250/11:1987
 We hereby certify that the material detailed herein has been produced and tested according to the requirements of the relevant standards, specification and/or order. Keep in dry conditions, without large temperature variations. The differences between metal and air must not exceed 11 °C. Please follow the recommendations of the Aluminum Association Guide for minimizing water staining, latest edition, for the unloading and storage of the material in your premises before usage. Also we certify that ALRO products complies with REACH legislation no. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals and CLP legislation no. 1272/2008 on classification, labeling and packaging of substances and mixtures.

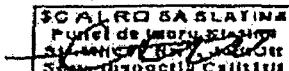
According to EN 10204:2004 3.1

QUALITY CONTROL DEPT.

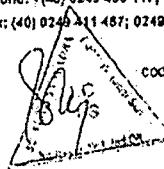
Adrian Calota, Eng.

ALRO S.A. No.116, Pitesti Street, Phone: +(40) 0249 436 117; 0249 432 956 alro@alro.ro

230048-Slatina-ROMANIA Fax: +(40) 0249 411 487; 0249 416 992 www.alro.ro



cod f1/PO-051/Rev.4/2012



PC, 11063

MILL TEST

	CERT CODE: 9	DIE NUMBER S 4666	DATE OF SHIPMENT Sep/21/2017	EX ORDER NO.	MANIFEST NO.
	CUSTOMER PO C74839	ALLOY 6061	TEMPER T6511	SALESMAN	378090
SO DESCRIPTION 3 1/4" ROD	CUSTOMER PART NUMBER V815211	PART DESCRIPTION 3 1/4" ROD		HOUSE ACCOUNTS	MADE IN CANADA

CERTIFICATION
ASTM B221-14 - AMS QQA 200/8

Mechanical Properties

<u>Lot</u>	<u>Alloy</u>	<u>Test Date</u>	<u>Ultimate Tensile Strength (KSI)</u>	<u>Yield Strength (KSI)</u>	<u>Percent Elongation</u>	<u>Hardness Rockwell F</u>	<u>Conductivity</u>
A.11	6061	Sep/21/2017	50.20	47.00	9.00	91.2, 91.5, 91.8	

Chemical Composition

<u>Cast Number</u>	<u>Lot</u>	<u>Alloy</u>	<u>Si</u>	<u>Fe</u>	<u>Cu</u>	<u>Mn</u>	<u>Mg</u>	<u>Cr</u>	<u>Ni</u>	<u>Zn</u>	<u>Ti</u>	<u>Ga</u>	<u>V</u>	<u>B</u>	<u>Zr</u>	<u>Bi</u>	<u>Pb</u>	<u>Sn</u>	<u>Sr</u>	<u>Co</u>	<u>Al</u>	<u>Other</u>
37876	A.11	6061	0.551	0.197	0.19	0.0681	0.834	0.0591	0	0.0099	0.0121	0	0	0	0	0	0	0	0	0	0	

2017/11/16

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

DAETI

37876.1083

T. Mohabir

Tulsiram Mohabir
Quality Control Manager

#7470

2195

MILL TEST CERTIFICATE		No: 15063	CERTIFIED SRAC-IQN01 ISO 9001:2008 No.10 Valid 2017	Vimetco alro SLATINA
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CUSTOMER : OLBERT METAL SALES LIMITED

CONTRACT/ORDER : 2195
 BILL OF DELIVERY : 80325427
 TRUCK/CONTAINER : GSTU 6265152

MATERIAL : ALUMINIUM PLATES
 ALLOY : 6061
 LOT/DIMENSIONS (mm) : 70175749 2"THX48.5"WDX144.5"LT TEMPER: T651

ACCORDING TO : ASTM B208; AMS 4027N; ANSI H35.2; ASME SB209; AMS-QQ-A-250/11

ACTUAL MECHANICAL PROPERTIES			1 MPa = 1 N/mm ² ≈ 0.145 ksi = 0.102 kgf/mm ²									
			UTS KSI	YTS KSI	Elong.% 50mm							
Specified values:			min. 42	max. 35		min. 8						
LOT / BATCH	CASE	NET WEIGHT lbs	Measured values:									
70175749 S37055730	546549;546551	5,560.063	48 48.2	41.7 41.5	14.5 13							
ACTUAL CHEMICAL ANALYSIS %												
BATCH	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Al
S37055730	0.72	0.56	0.25	0.12	0.98	0.17	0.012	0.04	0.014	0.009	0.016	REM. REM. REM.
Acc. to specifications	Min. Max.	0.4 0.8	0.15 0.7	0.15 0.4	0.8 1.2	0.04 0.35	0.05 0.05	0.25 0.25	0.15 0.15	0.05 0.05	0.05 0.05	REM.
Remarks:			Other- Each- Max.: 0.05				Others Total- Max.: 0.15					

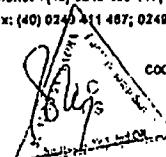
REMARKS:

ACCORDING TO: ASTM B209:2014; AMS 4027N:2008; ANSI H35.2:2013; ASME SB209:2016; AMS-QQ-A-250/11:1977
 We hereby certify that the material detailed herein has been produced and tested according to the requirements of the relevant standards, specification and/or order. Keep in dry conditions, without large temperature variations. The differences between metal and air must not exceed 11 °C. Please follow the recommendations of the Aluminum Association Guide for minimizing water staining, latest edition, for the unloading and storage of the material in your premises before usage. Also we certify that ALRO products complies with REACH legislation no. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals and CLP legislation no. 1272/2008 on classification, labeling and packaging of substances and mixtures.

According to EN 10204:2004 3.1

QUALITY CONTROL DEPT.
Adrian Calota, Eng.ALRO S.A. No.116, Proslu Street Phone: +(40) 0249 435 117; 0249 432 956 alro@alro.ro
230040-Slatina-ROMANIA Fax: +(40) 0249 411 467; 0249 416 992 www.alro.ro

SC ALRO SA SLATINA
Punct de Verificare
Sistem de Management
Sistem de Verificare
Sistem de Verificare



cod 11/PO-051/Rev.4/2012

AC 2195

152 CO.60831 DART

PO. 11063
2P-

KAISER
ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4468995

CUSTOMER PO NUMBER: C74354-6	WORK PACKAGE:	CUSTOMER PART NUMBER:		SHIP RUN/LOAD: 103971/14	GOVT CONTRACT NUMBER:
KAISER ORDER NO: 1237228-6		SHIP DATE: 6-JUL-2017	ALLOY: 2024	CLAD: BARE	TEMPER: T3
WEIGHT SHIPPED: 2316 LB	QUANTITY: 103 PCS EST.	TRUCK B/L #: 2067707	GAUGE: 0.0320 IN (0.8128 MM)	DIAMETER/WIDTH: 48.000 IN (1219.2 MM)	LENGTH: 144.000 IN (3657.6 MM)

MHU 2118353: LOT 223825B1: 103 pieces: 0349126

Certified Specifications

✓ AMS 4037/RevQ
CMMMP 019/RevD

✓ AMS-QQ-A-250/4/RevB
✓ CMMMP 025/RevV

✓ ASTM B 209/Rev14

Test Code: 1504

Lot: 223825B1 Cast 433

Drop 59

Test Results

Ingot 1

Melted In USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	68.6 : 68.9 (473 : 475)	47.3 : 47.5 (326 : 328)	17.1 : 18.7

(ASTM E1251)

Chemistry:	Si	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.07	0.23	4.8	0.53	1.4	0.01	0.11	0.02	0.01	0.01	TOT 0.05

ALLOY LIMITS

2024	Si	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH 0.05	
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT 0.15	

Aluminum Remainder



Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4468995

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown. Thermal and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225-1101.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free (within the limits of detection of ASTM E1215 (<1ppm)).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- is free of Conflict Minerals, as defined in Section 152 of the Dodd-Frank Act.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

#3048

Palo - 246V

AMAG

ROLLING

Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Nr.: 85186414 01 / 1

Rev.: 0

Seite / page: 1 von / of 2

Datum / date: 2014 12 03

Bestell Nr. / order no.:	C 68981
Datum / date:	2014 07 02
Auftragsbest. Nr. / order confirm no.:	678422
Datum / date:	2014 07 03
Lieferschein Nr. / delivery note:	85186414
Datum / date:	2014 12 31

Produktbeschreibung / Product description	Beschreibung / Description
Form / form: Sheet Werkstoff / material: 6061 Zustand / temper: T6 Dim. / dim.: [inch]: 0,020x48,00x144,00	Technische Lieferbedingungen / techn. spec.: AMS-QQ-A-250/11, 08.1997 ASTM B 209 - 10 AMS 4027N, 07.2008 Cessna CMMPO19, Rev. D, 09-07-01 Cessna CMMPO25, Rev. U, 05-26-11 Sondervorschrift / special terms:

D464406
D464407
D464408
D464409
D464422

D2	68424/01/00	01/0065730/4	6061	6784220018	2405,203 lbs	179
02	68424/01/00	01/0065730/4	6061	6784220019	2387,566 lbs	177
02	68424/01/00	01/0065730/4	6061	6784220020	2409,612 lbs	179
02	68424/01/00	01/0065730/4	6061	6784220021	2414,021 lbs	179
02	68424/01/00	01/0065730/4	6061	6784220022	2482,363 lbs	179

Chemische Zusammensetzung (Chemical composition) (Gehalte in Gewichtsprozent (Weight percent (Wt.-%)))											
Guss Nr. / cast no.	material	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
01/0065730/4	6061	0,40	-	0,15	-	0,80	0,04	-	-	-	-
	spec. min.	0,80	0,70	0,40	0,15	1,20	0,35	0,25	0,15	0,05	0,15
	spec. max.	0,71	0,43	0,26	0,14	0,93	0,19	0,10	0,06	0,02	0,04
	actual										

BNr/Los	Zustand	Richtung	Tests	UTS	YS	AZ"			
Lot/No.	temper	direction		[kg]	[kg]	[%]			
			spec.min.	42,0	35,0	8			
			spec.max.	-	-	-			
68424/01	T6	LT	8	from	49,7	42,5	12		
68424/01	T6	LT		to	50,2	43,4	14		

AMAG_®

ROLLING

Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

Nr.: 85186414 01 / 1

Rev.: 0

Seite / page: 2 von / of 2

Datum / date: 2014 12 03

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Spätigkeit Prüfungen/other tests

Biegeversuch: OK. / Transverse bend test: OK.

Maßkontrolle: OK. / Dimensional Check: OK.

Oberfläche: OK. / Surface inspection: OK.

Dimensionstoleranzen/Dimensional tolerances

Die Dimensionstoleranzen entsprechen ANSI XXX /
As standard, dimensional tolerances are to ANSI XXX

Ausgestellt nach Airbus Zulassung Nr. 30272.

Wir bestätigen, dass die gesamte Lieferung unter Einhaltung und soweit oben nicht anders dargelegt aller Forderungen (Spezifikationen, Zeichnungen, Aufträge) hergestellt und geprüft wurde.

Das Qualitätsmanagementsystem erfüllt die Anforderungen der AUK/SA/001-3.

Hergestellt, kontrolliert und geprüft nach Hawker Beechcraft HBIFSAS/PART3/0771

Agusta Westland Genehmigung Lieferantennummer V21275

Issued under Airbus Approval No. 30272.

Certified that the whole of the supplies detailed hereon have been manufactured, inspected, tested and unless otherwise stated above conform in all respects to the Specifications, Drawings and Contract.

Order relevant thereto The Quality Management System arrangements in respect of these supplies comply with the requirements of AUK/SA/001-3.

Manufactured, inspected and tested according Hawker Beechcraft HBIFSAS/PART3/0771

Agusta Westland approval supplier code V21275

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.

We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werkzeugmechaniker/ Workshop specialist

Klampfer Josef

josef.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.

Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.

AMAG rolling
Werkzeugmechaniker
ROL-Nr. 015

#3175

AMAG

GMBH & CO. KG

Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate - mill certificate

Nr.: 85150377 01 / 4

Rev.: 0

Seite / page: 1 von / of 2

Datum / date: 2015 11 10

Zertifiziert nach / certified in ISO 9001, ISO/TS 16940, EN:AS 9100, ISO 14001, NADCAP

Auftraggeber / customer: Warenempfänger / consignee:	Bestell Nr. / order no.:	C 70532
	Datum / date:	2015 05 20
	Auftragsbest. Nr. / order confirm no.:	693391
	Datum / date:	2015 05 21

Produkt / product: Form / form: Sheet Werkstoff / material: 6061 Zustand / temper: T6 Dim. / dim.: [inch] 0,053x48,00x96,00	Bedingungen / terms: Technische Lieferbedingungen / techn. spec.: AMS-QQ-A-250/11, 08.1992 ASTM B-209-14 AMS 4027N, 07.2008 Cessna CMMP019, Rev. D, 09-07-01 Cessna CNMP025, Rev. V, 2-20-15
	Sondervorschrift / special terms:

AB-Pos. ord.-num.	BNr./Ls./Tafel-Nr. Lot/No./Part	Guss-Nr. cast no.	Werkstoff- material:	Kette package	Gewicht netto weight net	Stk. pes.
06	61011/01/001	01/0072091/5	6061	6933910027	2409,612 lbs	85
06	61011/01/001	01/0072091/5	6061	6933910028	2414,021 lbs	85
06	61011/01/001	01/0072091/5	6061	6933910029	2414,021 lbs	85
06	61011/01/001	01/0072091/5	6061	6933910030	2414,021 lbs	85
06	61011/01/001	01/0072091/5	6061	6933910031	2416,226 lbs	85
06	61011/01/001	01/0072091/5	6061	6933910032	2416,226 lbs	85
06	61011/01/001	01/0072091/5	6061	6933910033	1560,847 lbs	55

Chemische Zusammensetzung (-% Gewichtsanteile) / Chemical composition (-% weight proportion (GES))

Guss-Nr. / cast no.	Material	Chemical composition (-% weight proportion (GES))									
		Si	Fe	Cu	Mn	Mg	C	Zn	Ti	Others	Others
01/0072091/5	6061	0,40	-	0,15	-	0,80	0,04	-	-	-	-
	spec. min.	0,80	0,70	0,40	0,15	1,20	0,35	0,25	0,15	0,05	0,15
	spec. max.	0,68	0,44	0,24	0,12	0,88	0,18	0,06	0,03	0,02	0,03
	actual										

Zugprüfung LT / tensile test LT

BNr./Ls. Lot/No.	Zustand temper	Richtung direction	Tests	UTS			Y5 (kN)	A2 ⁺ [%]		
				[kN]	[kN]	[%]				
			spec. min.	42,0	35,0	10				
			spec. max.	-	-	-				
61011/01	T6	LT	8	from	48,6	42,4	13			
61011/01	T6	LT		to	49,0	42,9	15			

AMAG...

Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

Nr.: 85150377 01 / 4

Rev.: 0

Seite / page: 2 von 1 of 2

Datum / date: 2015 11 10

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Sonstige Prüfungen / other tests:

Biegevorschub: OK. / Transverse bend test: OK

Maßkontrolle: OK. / Dimensional Check: OK.

Oberfläche: OK. / Surface inspection: OK.

Bemerkungen / notes:

Die Dimensionstoleranzen entsprechen ANSI XXX /

As standard, dimensional tolerances are to ANSI XXX

Ausgestellt nach Airbus Zulassung Nr. 30272.

Wir bestätigen, dass die gesamte Lieferung unter Einhaltung und soweit oben nicht anders dargelegt aller Forderungen (Spezifikationen, Zeichnungen, Auflagen) hergestellt und geprüft wurde.

Das Qualitätsmanagementsystem erfüllt die Anforderungen der AUK/SA/001-3.

Hergestellt, kontrolliert und geprüft nach Hawker Beechcraft HBIFSAS/PART3/0771

Agusta Westland Genehmigung Lieferantennummer V21275

Issued under Airbus Approval No. 30272.

Certified that the whole of the supplies detailed hereon have been manufactured, inspected, tested and unless otherwise stated above conform in all respects to the Specifications, Drawings and Contract.

Order relevant thereto. The Quality Management System arrangements in respect of these supplies comply with the requirements of AUK/SA/001-3.

Manufactured, inspected and tested according Hawker Beechcraft HBIFSAS/PART3/0771

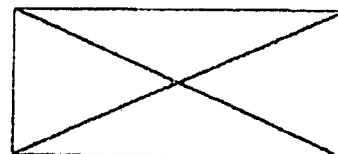
Agusta Westland approval supplier code V21275

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.

We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werkzeughalter / factory specialist	E-Mail / e-mail
Klampfer Josef	josef.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.
Maschine erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.





Acciaierie Valbruna S.p.A.

36100 VICENZA (Italy) - Viale della scienza, 25 z.I.
Telefono 0444.668211 - Fax 0444.863638
Stab.: 39100 BOLZANO (Italy) - Via A. Volta, 4/37
Telefono 0471.924111 - Fax 0471.924497

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004) , 3.1

Certificato nr.: MEST875470 / 2016 /
Produktreferenz

Ci sono / Bestiller/Purchaser/Clien
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1 - MILTON, ONT L5T 5Z1 - CA

Stato di fornitura: Hot rolled - Annealed Cold Drawn
Lieferzustand
Delivery state
Etat de livraison

Produzione:
Herstellung/Ative production
ACCIAIERIE VALBRUNA S.p.A.

Ordine nr.: 603005690 STOCK
Bestell
Your order
Command

Tipo di Elaborazione: E+AOD
Erhärungswert
Milling process
Mode d'élaboration

Marchi di Fabbrica:
Zeichen des Herstellers
Trade marks
Signs de l'usine production

Conferma ordine nr.: EI16002840
Werks/Our Order Ref. nr.

Quantità: 304/304L

Punzione del Collaudatore:
Stamp des Werkzauchtenstücks
Inspector's stamp/Police de l'atelier

Avviso di Spedizione: D-VI16013188
Werks/Our Packing Ref. nr.

Marca: AISI
Markenbezeichnung
Brand / Marque

Punzonatura: 304/304L
Kennzeichnung
Marking
Marquage

Metal and manufactured in Italy No welding or weld repair Material free from Mercury contamination
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER ACCORDING TO ISO 9001 : 2008, ISO/TS16949 : 2009, AS 9100C

The Quality Management System is Certified acc. Pressure Equipment Directive 97/23/EC Annex 1, a., 4.3 by TUEV and LLOYD'S. Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction. Maxval and/or Valplus grade/products are manufactured with Isolde techniques to control composition, distribution, size and shape of non-metallic inclusions for improved machinability. The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 25/05/16
VCO006
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkzauchtenstücks / Works Inspector / L'agent d'usine

M. Rizzotti

Pagina - 3 di 3



CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004) , 3.1

✓ NachAccordung gefertigt

Certificato nr. MEST875470 / 2016 /
Prüfung/Test/Essai

Cliente / Destinatario/Purchaser/Client
VALBRUNA CANADA LTD
6724 HOLGATE CRESCENT
L5T 5Z1 - MILTON, ONT L5T 5Z1 - CA

Stato di fornitura: Hot rolled - Annealed Cold Drawn
Lieferstatus
Delivery state
Etat de livraison

Produttore:
Herrschaffermühle produktion
ACCIAIERIE VALBRUNA S.P.A.

Ordine nr. 603005690 STOCK
Detail
Your order
Command

Tipo di Elaborazione: E+AOD
Endformung
Milling process
Mode d'élaboration

Marchi di Fabbrica:
Zulizen des Unternehmers
Trade marks
Signes de l'usine productrice

Conferma ordine nr. EI16002840
Werks/Our Order Ref. nr.
Aviso di Spedizione: D-VI16013169
Lieferung/Packing Ref. nr.

Qualità: 304/304L
Werks-Qualität/Qualit  e
Grade d'usine

Punzonatura del Colloidatore:
Stempel des Werkzeugherstellers
Inspecteur's stamp/Polon de l'usager
Punzonatura: 304/304L
Kontrollstempel
Marking
Marquage

SPECIFICHE:

Note:

Anforderungen / Requirements / Exigences

Anmerkungen / Notes / Notes

VSI 0 304/304L A,CF
AISI 304/304L
AMS 5639 H S30400 A
AMS 5647 J S30403 A
AMS-QQ-S-763 D 304 A,CF
AMS-QQ-S-763 D 304L A,CF
ASME SA182 2015 S30400/03 A (0)
ASME SA193 2016 B8 (1)
ASME SA276 2015 S30400/03 A,CF (2)
ASME SA320 2015 B8 (3)
ASME SA479 2016 S30400/03 A (4)
ASTM A182 2015 S30400/03 A (5)
ASTM A193 2016 B8 (6)
ASTM A262 2013 PRACTICE E
ASTM A276 2016 S30400/03 A,CF
ASTM A314 2008 S30400/03
ASTM A320 2015A B8 (7)
ASTM A370 2014 .
ASTM A473 2001 S30400/03 (8)
ASTM A479 2016 S30400/03 A
MIL-S-862 B/1 304/304L
NACE MR0103 2010 S30400/03 A
NACE MR0175 2009 S30400/03 A (9)

(0)SECTION B PTA 2015 EDITION For products machined directly from bar refer to ASME SA479.

(1)SECTION B PTA 2015 EDITION Chemical analysis only.

(2)SECTION B PTA 2015 EDITION

(3)SECTION B PTA 2015 EDITION Chemical analysis only.

(4)SECTION B PTA 2015 EDITION

(5)For products machined directly from bar refer also to ASTM A479.

(6)Chemical analysis only.

(7)Chemical analysis only.

(8)Chemical analysis only.

(9)ANSI/NACE MR0175/ISO 15158-3, second edition 2008-10-15 Technical circular 12011 Published 2011-06-14

Tolleranza: ASTM A484-15 TABLE 8

Toleranza/Allowance/Tolerance

Pos. nr. Pos. n. Line n. Nr. de poste	Oggetto Gegenstand Produkt/Artikelnr. Objet/Art. de poste	Dimension - In Abmessung Dimension Dimensions	Lunghezza - In Länge Long Length	Colata Menge Irrég. Quantity Menge Quantité	Pozzi Bohrung Punch Pois Pois	Peso - LB Gewicht Poids Weight Poids	Lotto nr. Lotto n. Lote n. Lot n.
0010	Square	1,0000 x 1,0000	156/ 156	269432		4.944	601108380

Vicenza, 25/05/16

VC0008

(Mod. MCE2)

Il collaudatore di stabilimento / der Werkzeughersteller/Works Inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 3

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304/B1.000X1.000

DATE: NOV 30 2017

PO / BATCH NO.: 038285/50109815

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 1.00'

QUANTITY RECEIVED: 23"

THICKNESS RECEIVED: 1.00'

QUANTITY INSPECTED: 23"

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	- ASTM A276
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Heat # 269432
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>PD</u>	SIGNED OFF BY: _____
DATE: <u>NOV 30 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIRMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVIED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIRMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIRMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVIED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC CORRDINATOR BEFORE GOING FURTHER

8 7 6 5 4 3 2 1

SPECIFICATION CONTROL DRAWING

 PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE: AISI 303 NOT ACCEPTABLE)

 SPECIFICATION: **ASTM A276 OR ASTM A240** *ref*

PART NUMBER: M304B **T.TTT** X **WWW.WWW**
THICK. | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
AND "WWW.WWW" = WIDTH IN INCHES

 EG. 0.5" x 3.0" BAR = M304B0.500X03.000
EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

RELEASED
2010-11-30
M

C	ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG., CHANGED TITLE FROM '304/316 BAR' TO '304/316 BAR/PLATE'	MB	10.11.25
B	REFORMAT DWG, ADD SPECS (ZN D8-1), REF PAR 08-020A	CP	09.07.15
A	NEW ISSUE	PH	05.06.10
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>PH</i>	DART AEROSPACE LTD	
DRAWN	<i>1</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>PH</i>	DRAWING NO.	REV. C
MFG. APPR.	<i>PH</i>	M304B	SHEET 1 OF 1
APPROVED	<i>PH</i>	TITLE	SCALE
DE APPR.	<i>PH</i>	304/316 BAR/PLATE	
DATE	10.11.25	NTS	

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NOT TO BE USED FOR ANY PURPOSE OTHER THAN COMMUNICATED TO ANOTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD

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2

1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 6061-T65 Sheet:020

DATE: NOV 30 2017

PO / BATCH NO.: 038285/5009813

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 48"
 QUANTITY INSPECTED: 48"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .020
 THICKNESS RECEIVED: .020
 SHEET SIZE ORDERED: 4X12
 SHEET SIZE RECEIVED: 4X12

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	- Ams - QQ - A - 250/1
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Heat # F68424/01/00
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>PD</u>	SIGNED OFF BY: _____
DATE: <u>NOV 30 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

B PART NUMBER: M6061T6S|XXX
THK |

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT

RELEASED
2009-09-10

B	REFORMAT DWG, ADD B209 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		M6061T6S	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		6061-T6 SHEET SPEC	NTS
DATE	09.07.13	COPRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

8 7 6 5 4 3 2 1

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1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T65.063

DATE: NOV 30 2017

PO / BATCH NO.: 038285/5009814

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 64^{ft^2}
 QUANTITY INSPECTED: 64^{ft^2}
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.63
 THICKNESS RECEIVED: 0.63
 SHEET SIZE ORDERED: 2x4x8
 SHEET SIZE RECEIVED: 2x4x8

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<u>AMS-QQ-A-250/11</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<u>Heat # 61011/51/00</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>pd</u> <u>PD</u>	SIGNED OFF BY: _____
DATE: <u>NOV 30 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

PART NUMBER: M6061T6S | XXX |
THK |

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT

RELEASED
2009-09-10
MAP

B	REFORMAT DWG, ADD B209 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.	<i>[Signature]</i>	M6061T6S	SHEET 1 OF 1
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	6061-T6 SHEET SPEC	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE, OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061+6B2.000X03.500 PO / BATCH NO.: 038285/5009811
 DATE: DEC 05 2017

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 6"
 QUANTITY INSPECTED: 6"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.00
 THICKNESS RECEIVED: 2.00
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>AMS-QQ-A-250/11</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>Heat # 70175249/537055730</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>ml</u> /D	SIGNED OFF BY: _____
DATE: <u>DEC 05 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

8 7 6 5 4 3 2 1

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR ~~AMS 4027~~
OR ASTM B209

PART NUMBER: M6061T6S | XXX |
THK |

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT

RELEASED
2009-09-10
MP

B	REFORMAT DWG, ADD B209 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>HP</i>	DART AEROSPACE LTD	
DRAWN	<i>HP</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		M6061T6S	SHEET 1 OF 1
APPROVED	<i>MP</i>	TITLE	SCALE
DE APPR.	<i>MP</i>	6061-T6 SHEET SPEC	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR FOR THE DISCLOSURE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

8 7 6 5 4 3 2 1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M2024T35.032
 DATE: 17-11-28

PO / BATCH NO.: 038388/5013848

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 48 1/2
 QUANTITY INSPECTED: 48 1/2
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .032
 THICKNESS RECEIVED: .032
 SHEET SIZE ORDERED: 4x8
 SHEET SIZE RECEIVED: 4x12

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u> N	QQ-A-250/4
CORRECT THICKNESS	<u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	Y N	HT# 63819/01
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>pel</u> <u>DAS</u> <u>9</u>	SIGNED OFF BY: _____
DATE: <u>17/11/28</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2,...) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

8 7 6 5 4 3 2 1

SPECIFICATION CONTROL DRAWING

D4S

9

9-09

032

PURCHASE MATERIAL: 2024-T3 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/4 OR AMS-QQ-A-250/4
OR AMS 4037
OR ASTM B209



PART NUMBER: M2024T3S | XXX |
THK |

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M2024T3S.063

PREFERRED SIZE: .XXX BY 4FT BY 10FT

RELEASED
2009-08-23
JW

B	REFORMAT DWG, ADD ASTM B209 SPEC (ZN D8-1), PAR 09-020A	CP	09.07.07
A	NEW ISSUE	DS	01.09.24
REV.	DESCRIPTION	BY	DATE
DESIGN			DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN			REV. B
CHECKED			DRAWING NO. M2024T3S
MFG. APPR.			SHEET 1 OF 1
APPROVED			TITLE
DE APPR.			SCALE NTS
DATE	09.07.07		COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE, OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

8 7 6 5 4 3 2 1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6 R3.250
 DATE: 17/11/16

PO / BATCH NO.: 382851/5009812

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 36
 QUANTITY INSPECTED: 36
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 3.250
 THICKNESS RECEIVED: 3.250
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> N	<u>ASTM B221 AMS QQA-20018</u>
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	<u>HEAT # 277581 37876</u>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	<u>M6061T6 R3.250</u>
CORRECT M# ON THE MATERIAL	<u>Y</u> N	<u>5009812</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGN OFF (if required)
INSPECTED BY: <u>mg</u>	SIGNED OFF BY: _____
DATE: <u>17/11/16</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

8 7 6 5 4 3 2 1

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T851/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

B
PART NUMBER: M6061T6R[D.DDD]
[DIA.]

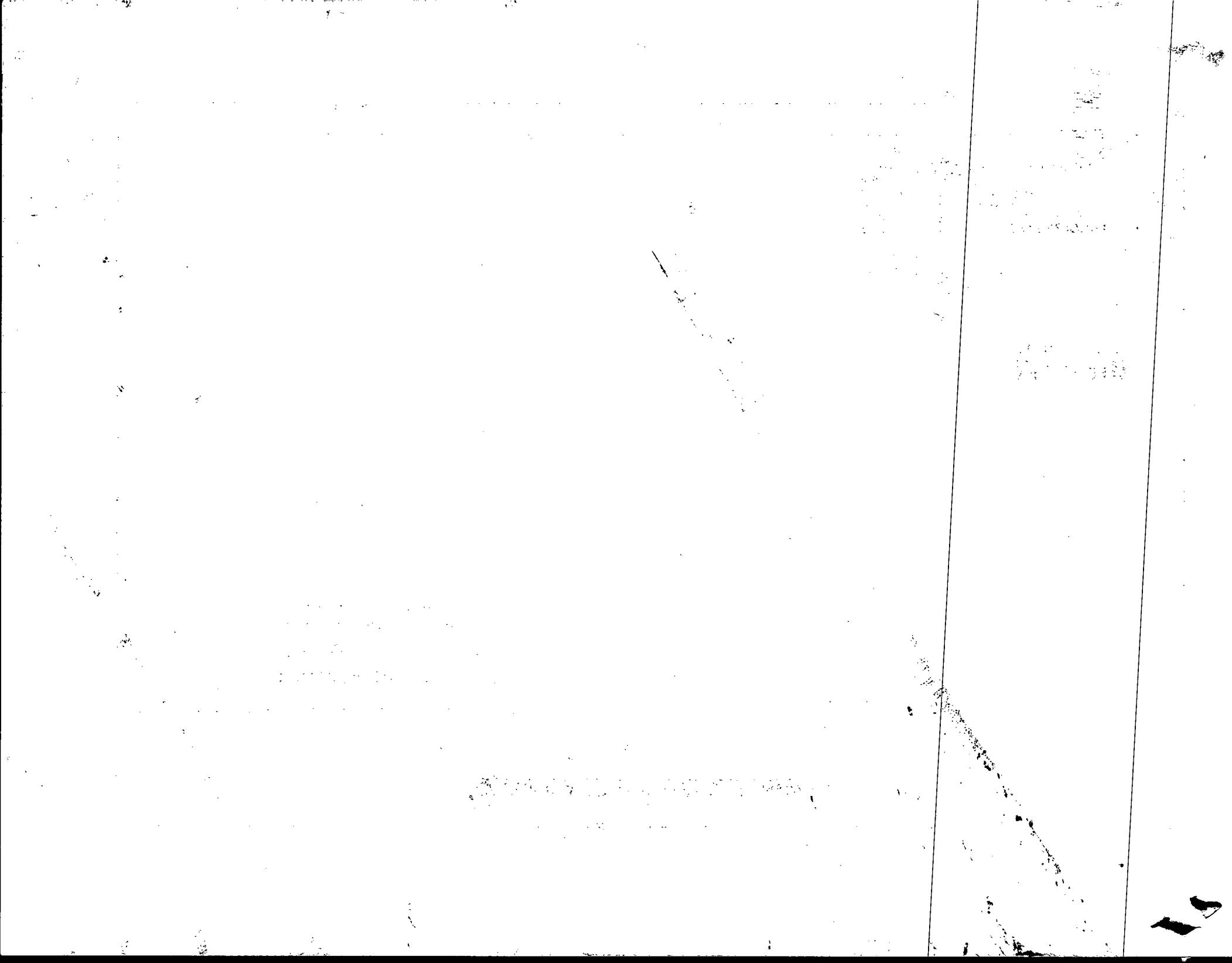
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6R0.625

R3.250
AMR

RELEASED
2009-09-09
AMR

B	REFORMAT DWG. ADD B211& B221 SPEC (ZN DB-1). REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION		
DESIGN	<i>AMR</i>	DART AEROSPACE LTD	
DRAWN	<i>AMR</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>AMR</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>AMR</i>	M6061T6R	SHEET 1 OF 1
APPROVED	<i>AMR</i>	TITLE	SCALE
DE APPR.	<i>AMR</i>	6061-T6 ROUND BAR	NTS
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8 7 6 5 4 3 2 1





Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

**PURCHASE ORDER
PO038285**

Supplier: ACI001-VC Acier Ouellette Inc. 935 Boul. Du Havre Valleyfield QC J6S 5L1 Canada Phone: 800 667 4248 Fax: 450 377 5696	PO No: PO038285 PO Date: 11/7/17 Due Date: 11/13/17 Purchase Order Revision: Revision Date: Ship-To Contact: Baker, Diane Phone: dbaker@dartaero.com
Ship To: 1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	Via: Ground Pymt Terms: Net 30 Freight Terms: Special Comments: QUOTATION NO. SOU0068632, SOU0069446, SOU0069452

Items											
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M17-4-R0.750	-	17-4 Round Bar .750 : 17-4 PH / S17400 / TYPE 630 SS ROUND BAR PER AMS 5643/ ASTM A564 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI receive ft		Firmed	11/13/17	24 ft	0 ft	24 ft	\$8.275/ft	\$198.60
2	M2024T3S.032	-	2024-T3 .032 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf		Firmed	11/13/17	48 sf	0 sf	48 sf	\$4.4791666/sf	\$215.00
7	M6061T6B2.000X03.500	-	6061-T6 Bar 2.00 X 3.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	6 ft	0 ft	6 ft	\$40.70/ft	\$244.20
14	M6061T6R3.250	-	6061-T6 Round Bar 3.250" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR		Firmed	11/13/17	36 ft	0 ft	36 ft	\$30.773611/ft	\$1,107.85



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

**PURCHASE ORDER
PO038285**

Line Item	Part	Rev	Items								
			Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
			AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft								
15	M6061T6S.020	-	6061-T6 Sheet .020 : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	48 sf	0 sf	48 sf	\$1.736875/sf	\$83.37
16	M6061T6S.040	-	6061-T6 .040 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	144 sf	0 sf	144 sf	\$2.8484722/sf	\$410.18
17	M6061T6S.063	-	6061-T6 .063 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	64 sf	0 sf	64 sf	\$2.7565625/sf	\$176.42
20	M304B1.000X1.000	-	304 Bar 1.00 X 1.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft		Firmed	11/13/17	24 ft	0 ft	24 ft	\$13.4625/ft	\$323.10
21	M303R0.500	-	303 Round Bar 0.500" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE receive ft		Firmed	11/13/17	48 ft	0 ft	48 ft	\$1.9739583/ft	\$94.75

Grand Total: \$2,853.47

Order Notes:

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038285

Order Notes

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/14/17 12:40 PM *dart.baker.diane*